

ENVIRONMENTAL TECHNICAL SERVICES

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OPERATIONS AND MAINTENANCE PLAN

Reporting Year: June 2010 – July 2011

**LEVIN RICHMOND TERMINAL
402 WRIGHT AVENUE
RICHMOND, CALIFORNIA**

November 26, 2011

ENVIRONMENTAL TECHNICAL SERVICES

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July 31, 2011

Levin Richmond Terminal
402 Wright Avenue
Richmond, CA 94804
Attn: Gary M. Levin

REFERENCE: Levin Richmond Terminal Co.
402 Wright Avenue
Richmond, CA 94804
Facility WOID No: 2 071002394

CERTIFICATION STATEMENT

"I certify under penalty of law that this document, the Levin Richmond Terminal *Operations and Maintenance Plan 2010 — 2011*, and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

I have reviewed the report and as an authorized representative of the Levin Richmond Terminal Corporation "I declare that under perjury the information and/or recommendations contained in the attached report is true and correct to the best of my knowledge."



Helen Mawhinney
Environmental Technical Services
Sr. Environmental Specialist



Date

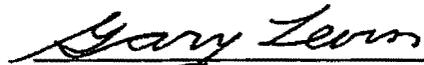
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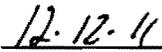
REFERENCE: Levin Richmond Terminal Corporation
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Facility WDID No: 2 071002394

October 26, 2011

I, Gary Levin, certify that Environmental Technical Services (ETS) is an authorized representative of the Levin Richmond Terminal Corporation (LRTC), and performs oversight of the Stormwater Program including reporting. I certify under penalty of law that this document, "Operations and Maintenance Plan 2010-2011" and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or the persons directly responsible for gathering the information, the information submitted is to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for known violations.



Gary M. Levin, CEO
Levin Richmond Terminal Corp.
Attorney at Law



Date:

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1.0 INTRODUCTION

This document is prepared for submittal to the United States Environmental Protection Agency (U.S. EPA), Hazardous Waste Management Division. Levin-Richmond Terminal Corporation (LRTC), in compliance with the State of California General Stormwater Permit for Discharges of Storm Water Associated with Industrial Activities (General Permit), has performed activities that are included in its Stormwater Monitoring Plan (SWMP). The SWMP also provides the basis for the evaluation of compliance with the General Permit and Stormwater Pollution Prevention Plan (SWPPP). The combination of the SWMP and the SWPPP comprise the stormwater monitoring and pollution prevention plans for the entire 40-acre site and the facilities owned and operated by LRTC.

As required by the U.S. EPA Consent Decree, dated April 22, 1996 and the completed Upland Cap Installation, Former United Heckathorn Facility, Richmond, California, the Operations and Maintenance Plan (O & M Plan) describes the procedures for the long-term management of the upland capping system at the 4.5-acre Heckathorn NPL Site. The results of inspections, monitoring, and maintenance of the cap and drainage system are documented within this Annual Report. The upland remedy implemented by LRTC and Levin Enterprises Inc. was approved on September 30, 1999. There were no activities to report for the period ending June 2001 and LRTC began annual reporting for its fiscal year commencing July 1, 2001 through June 30, 2002. Submittal of Annual Reports is made for the reporting periods ending June 30 of each year. All referenced reports and documents are available at LRTC and are available to the U.S. EPA and its contractors upon request.

This document presents the June 2011 summary of recent inspection and maintenance by LRTC of the cap and associated stormwater interceptors.

1.1 Background

Environmental Technical Services (ETS) prepared and caused to be filed, on behalf of LRTC, the 2010-2011 Annual Report for Stormwater Discharges Associated with Industrial Activities, for the period ending June 2011. During the 2010 – 2011 reporting period no changes have been made to the Heckathorn NPL Site, including but not limited to material processes, capping, interceptors, and site construction. Site observations, monitoring, and “Good Housekeeping Practices” are performed on a daily basis.

1.2 Current Site Use

The Levin-Richmond Terminal Corporation operates a dry-bulk marine terminal encompassing approximately 40 acres. LRTC’s activities include the handling and storage of dry bulk materials, including: steel scrap, iron ore, metallurgical coke, and petroleum coke. The bulk cargo is either directly loaded into vessels; or stockpiled onsite and loaded into vessels; or unloaded from vessels to rail cars and trucks. The

capped section of the former Heckathorn Site is used for stockpiling cargo and railroad operations.

2.0 CAP AND STORMWATER INTERCEPTORS

2.1 Description of Capping System

Concrete Cap

The concrete cap is located in the upland area of the former United Heckathorn Facility. The concrete cap consists of a minimum of six inches of concrete aggregates with reinforcing steel wire. The reinforcing steel consists of a double layer of 6 by 6 W4.5 X W4.5 steel-welded wire fabric (WWF). In some areas the cap overlies asphalt. In other areas where asphalt does not exist, the concrete cap consist of a double layer of 4 X 4 W4.5 X W4.5 WWF overlaying a compacted base. In these areas the sub-grade was prepared and compacted according to the specification approved by the U.S. EPA.

Geotextile Fabric and Gravel Cover

Some areas of the upland cap adjacent to railroad tracks and switches, where the storage and handling of bulk materials does not occur, were covered with a geotextile fabric and gravel. These areas consist of soils potentially containing pesticides. The geotextile membrane and six-inches of clean imported gravel cover these soils.

Stormwater Collection within Interceptors SW-3 through SW-7

The cap contains a stormwater collection system with five large interceptors (retention basins) engineered and constructed according to the specification approved by the U.S. EPA. The interceptors are identified as SW-3 through SW-7.

2.2 Inspection of Cap

The concrete cap was inspected by John Peterson for Buster Building, General Contractor, License No. 513203 C8 (concrete) on June 22, 2011, and found to be intact and in good condition. Also, the cap was inspected quarterly by Environmental Technical Services (ETS) while performing stormwater and "Good Housekeeping" observations. The cap was found to be uncompromised with only occasional surface "feather" cracks typical of those which develop subsequent to the curing of freshly poured concrete. The cracks are insignificant and not indicative of stress fractures. These surface cracks are too small to repair. Refer to Attachment B for the Buster Building, Report of Cap Inspection, June 22, 2011.

2.3 Inspection of Drop Inlets and Interceptors

LRTC's staff and Environmental Technical Services (ETS) perform site observations. ETS has been retained to perform random site inspections and to advise LRTC as to

effective pollution prevention improvements. A pollution absorbent/prevention materials expert and vendor, performs site inspections during the wet season to evaluate the condition and placement of absorbent snakes, socks, pads, and fabrics.

Visual observations of stormwater runoff and stormwater systems are performed on an as-needed basis during shipping activities, periods of significant rainfall, and during dry and wet seasons. Work areas and surface conditions are inspected on a daily basis and the entire site is cleaned using LRTC's power vacuum and sweepers as part of LRTC's routine housekeeping. Site surfaces are kept clean to ensure that sediment and contaminants do not enter nearby surface waters.

LRTC's Stormwater Pollution Prevention Plan includes the inspection and documentation of drop inlet and interceptor conditions each quarter, each dry season, and annually. Monthly inspections are required during the wet season. LRTC and ETS have elected to document all inspection results on a monthly basis. The results are included in the Annual Report for Stormwater Discharges Associated with Industrial Activities

3.0 NO OUTPOUR OF STORMWATER FROM INTERCEPTORS SW-3 THROUGH SW-7

Stormwater systems SW-3 through SW-6 were constructed with sufficient capacity to hold all stormwater runoff generated during most rainfall events. However, extraordinary rainfall occurred on January 13, 2011, generating outflow into the Lauritzen Channel. Annual stormwater samples were collected during this rain event. There was no measurable discharge during all other rain events. Stormwater system SW-7 was constructed with a shutoff valve and discharge into the Lauritzen Canal eliminated.

These systems are sampled, drained, emptied of all sediment, and pressure-washed to decrease outflow into the Lauritzen Channel. In the event that extraordinary rainfall occurs discharging systems are sampled and analytical results reported. Refer to Appendix C, Cleaning of Stormwater Systems.

LRTC's personnel were able to empty all stormwater and sediment from each interceptor prior to fall rainfall allowing LRTC to enter the rainy season with dry interceptors. Pumping and discharge of stormwater into the City of Richmond's sanitary system is scheduled to be repeated on a regular basis during the wet season, and as necessary during seasonal rainfall.

4.0 BETTER BUSINESS PRACTICES / GOOD HOUSEKEEPING

Levin Richmond Terminal Corporation continues to work closely with Environmental Technical Services to improve and upgrade each site process that could adversely impact the environment. Improvements include, but are not limited to, the following:

LRTC continually reviews its operations in order to improve "Best Management Practices" and stormwater pollution prevention measures.

Primary pollution prevention measures include the sweeping of the facility during business hours using vacuum power and manual sweeping as necessary; regular replacement of swaddles; placement of DrainGuard® Catch Basin Absorbent inserts and Extech® fabric at each ground level drain entry; berming of all drain inlets with swaddles and absorbent snakes; the use of additional absorbent pads within each interceptor during rainfall; routine site inspections; returning migrated sediment to adjacent stockpiles, spraying collected stormwater onto stockpiles for dust control; site sealing of stormwater system's inlets during the dry season; the continual upgrade of stormwater systems, and training in pollution prevention.

4.1 Significant Materials

LRTC'S bulk material stockpiles are bermed, using ten-foot high concrete jackwalls. Subsequent to jackwall placement, fork pockets, used for their repositioning, are sealed with gaskets. Coal and Green Coke stockpiles are sealed using HaulRoad® or SoilSement®. All of the stockpiles are misted with municipal and recycled interceptor water, including recycled interceptor water, to decrease airborne particulates. Should runoff from the stockpiles occur, the water is vacuumed and recycled back onto the stockpiles by spraying. This is performed using a water truck. Refer to Table I for "Significant Materials" Types and Quantities.

Chemical "Significant Materials" are related to the maintenance, repair, and fueling of vehicles and materials handling equipment. Chemicals are stored in enclosed areas and transported in spill-resistant containers, using double containment tubs, drip pans, and pollution prevention materials as needed to eliminate drips, spills, and leaks. Refer to Table II for "Significant Materials" Best Management Practices (BMPs).

4.2 Federal Standard for Non-Road Engines, Emissions Reduction

In 2008, LRTC implemented a policy that all vehicles and equipment purchased will be compliant with Federal Standards (Tier 3 or better) for Non-road Engines.

4.3 Street Sweeper

LRTC's Tennant® and Tymo® (Tier 3 engine), truck-mounted vacuum power sweepers are scheduled to perform sweeping of outside surface areas, and cleanup following the unloading and loading of ships. The sweeper is also positioned and manned during appropriate cargo operations to assist in any necessary cleanup.

4.4 Trailer Mounted Vacuum

LRTC has a Veermer® 500, trailer mounted vacuum compliant with Federal Standards (Tier 3 or better) for Non-road Engines. The Veermer® is equipped with a vacuum and high-pressure water spray. It is used to clean and remove sediment from the interceptors.

4.5 Brooms

LRTC operates tractors with broom attachments: these are a repowered IT-28 and Cat 930H tractor with tier 3 engines to perform cleanup of the capped surface following cargo operations. The brooming allows for containment and recycling of cargo residue.

4.6 Water Truck

An LRTC water truck has been converted to pump and contain water from interceptors SW-1 through SW-7 prior to permitted discharge into the sanitary sewer or spraying onto stockpiles. This helps to prevent the stormwater within interceptors SW-3 through SW-7 from reaching levels that would outflow into the Lauritzen Channel.

LRTC has a Klein 2,500 gallon water truck with rear sprays, front sprays, and side sprays to wet the road and a remote control water cannon. The truck is used to spray the stockpiled bulk materials and front sprays to power wash surfaces as necessary. The truck is also equipped to pump water out of the stormwater interceptors during cleanout events.

4.7 Swaddles

Swaddles are placed around the perimeter of drain inlets as permitted. Swaddles cannot be placed around all storm drains due to vehicle or employee foot traffic. The steel plates covering interceptors SW-3 through SW-7 have a tight seal, making it unlikely that material would enter the basin. Throughout the dry season drain inlets are sealed with plastic sheeting or sediment-proof fabric and swaddles are used where ever possible, FRA allowing.

Daily inspections are conducted by LRTC's supervisors of all working stockpiles, mobile equipment, and conveying equipment. LRTC's supervisors and employees attempt to eliminate the buildup of material on concrete jackwalls, equipment, roadways, and surfaces.

4.8 Absorbent Materials

Absorbent snakes, socks, pillows, and filters are placed around and within each interceptor and storm drain. Due to Federal Railroad Regulations (FRAs) referenced custom alterations to drain inlets allow sealing the drain inlets without causing a tripping hazard. The absorbent materials are photosensitive and have a limited life span. Each absorbent type is closely monitored and on a replacement schedule. The absorbent materials are white, allowing easy detection of saturation with waste.

Emergency spill response stations have been placed strategically at areas where potential contaminants are used or stored. Cleanup materials are located near each work area. Ample supplies of absorbent booms are stored at LRTC. Refer to Attachment B, Figures for the map indicating Spill Response Stations.

Exposed soil and ties beneath railroad car "parking stations" have been covered with "Trackmat," a fabric barrier, prescribed and provided by American Textiles. This material is scheduled for routine replacement.

Environmental Technical Services, inspects LRTC's absorbent supply and placement at the beginning of each wet season and during monthly inspections, then instructs as to effective changes in material, quantity, or placement, which could increase filtration efficiency.

Throughout the wet season swaddles surround each drain inlet where possible relative to FRA tolerances. Drain Guards have been placed within all drain inlets located on the former Heckathorn facility parcel. Each inlet is sealed with plastic and/or Extech® fabric.

Stormwater runoff must flow through fabrics and absorbents prior to entering the stormwater interceptor or drain outflow. Additional straw swaddles, sediment pillows, and absorbent materials were added, as FRA permitted, to these areas during the wet season's loading and unloading activities.

During the dry season stormwater inlets are sealed using swaddles, absorbents, and Extech® fabric. Inflow grates flush with grade are sealed with plastic sheeting. Where traffic and FRA allows, each grate is covered with, and surrounded by swaddles.

The absorbents used are as follows;

Straw Swaddles (placed around drain entry and areas of inflow to storm drain systems).

Oil Absorbent Socks (placed inside and outside of swaddles and drain entry).

Absorbent Diapers (placed within storm drains).

Sediment proof fabric is placed over each drain entry.

DrainGuard® Catch Basin Insert (funnel placed at drain entry with an absorbent pillow inside).

Track Mats (Hydrocarbons absorbent) are placed on the railroad track floor where railcars are parked between projects.

Extech® Fabric (placed over drain inlets). This fabric is manufactured to allow water flow through the fabric while trapping hydrocarbons, metals, and sediment. The fabric is currently used to cover drain inlets throughout the wet season.

Environmental Technical Services has been retained to perform documented monthly site inspections of BMPs and stormwater systems.

The monitoring and upgrading of stormwater systems is ongoing. The upgrading of systems includes, but is not limited to: constructing primary stormwater interceptors and secondary sediment basins; covering stormwater runoff drainage trenches with asphalt/concrete; constructing curbs to direct drainage; replacing deteriorated asphalt; attaching shutoff valves; constructing concrete driveways; sealing drain inlets; building concrete berms to control stormwater run off; and increasing the scheduled emptying and cleaning of stormwater systems

4.9 Interceptor Improvements

SW-3 through SW-7

These interceptors are scheduled to be emptied and cleaned several times throughout the year as part of LRTC's SWPPP. Also, the interceptors are emptied on an-as-needed-basis to minimize stormwater discharge into the bay. Should extraordinary rainfall generate discharge stormwater samples are collected from the discharging systems.

Composite water samples were collected from interceptors SW-3 through SW-7 for the purpose of emptying and cleaning each interceptor. Laboratory analytical results were presented to the City of Richmond Waste Water Division, Pretreatment Program, and the interceptor's collected stormwater was emptied into the city's sanitary sewer under LRTC's City Industrial Discharge Permit or recycled back onto the stockpiles by spraying. This was performed using a water truck.

All basins and the primary interceptors associated with stormwater systems SW-3 through SW-7 were emptied and cleaned multiple times during the 2010–2011 reporting year.

SW-7 interceptor had a one-way tidal valve allowing stormwater within the interceptor to outflow, while preventing the Lauritzen Channel's surface water from inflowing during

high tide. The backflow valve was removed in January 2010 and replaced with a manual shutoff valve. The valve is always in the off position and stormwater is removed from the interceptor using a pump truck then sprayed onto adjacent material stockpiles for dust control or discharged into the sanitary sewer under LRTC's Industrial Discharge Permit.

Absorbents were routinely replaced within each system's inlet(s). Inlets were also covered with plastic sheeting; Extech® fabric; and/or swaddles during site operations. All associated openings are sealed using plastic; swaddles; and/or Extech® fabric during the dry season to keep interceptors clean. Pollution prevention materials remained in place throughout the year.

4.10 General Maintenance and Stormwater Improvements

LRTC maintains a log with various stormwater pollution prevention and site improvement entries, including: increased draining and cleaning of stormwater interceptors; capping the South Parr Yard; construction of a stormwater system with concrete vaults containing oil water separators and median filtration systems and/or stormwater pollution prevention materials; capturing runoff from stockpiled bulk materials for recycling back onto the piles by spraying; constructing a box to contain pollution prevention materials in the a stormwater outflow pipe; and continued training.

4.11 Training

LRTC personnel working with potential contaminants are OSHA 40-hour Hazmat-trained, with an annual eight-hour refresher course. Qualified personnel are also hazardous materials- and spill response-trained. Environmental Technical Services (ETS) conducted a "Stormwater Pollution Prevention – Good House Keeping" training course for all of LRTC's supervisors in January 11, 2011. Both instructor-lead training and an email course were provided. The class was followed up with an emailed quiz confirming the course's effectiveness.

BlueWater and Associates performs Hazwoper training courses, including some refresher pollution prevention and spill response. Tony Lester, an LRTC supervisor, continues stormwater pollution prevention, stormwater sampling and spill response training with Environmental Technical Services.

All LRTC employees are trained in pollution prevention awareness and Best Management Practices and participate in implementing these practices as the practices relate to their specific duties. LRTC employees work closely together to maintain a constant awareness of work areas, including significant materials (stockpiles and chemicals), waste, and vehicle and equipment conditions, with pollution prevention implemented as needed. Periodic tailgate meetings are held, and pollution prevention measures reviewed. While responsibility is shared by all, LRTC has designated and trained a team for consistency and effectiveness in stormwater pollution prevention and

spill response. The Spill Response team is notified if assistance is required. The Spill Response Team performs routine site inspections and BMP maintenance.

4.12 Marine Spill Emergency Response

LRTC has a written contract with NRC Environmental, an emergency response contractor, to immediately respond to an LRTC marine spill, should one occur. NRC Environmental provides 24-hour emergency response on both land and water. This contract includes providing emergency response vessels, personnel, absorbent consumables, and Coast Guard-approved oil containment booms.

The Coast Guard Marine Safety Office (MSO) requires each visiting cargo vessel to have an existing emergency response contract with an Oil Spill Response Organization (OSRO) prior to the Coast Guard allowing entry into US Ports.

4.13 Inspections

Daily inspections of all working stockpiles, mobile equipment, and conveying equipment are conducted by LRTC's supervisors and employees for containment and cleanliness to eliminate the buildup of material on jack walls, k-rail, equipment, roadways, and surfaces.

LRTC staff and/or Environmental Technical Services (ETS) perform site observations. ETS has been retained to perform site inspections randomly and to advise LRTC as to effective pollution prevention improvements. American Textiles, a pollution absorbent/prevention materials consultant and vendor, performs site inspections during the wet season to evaluate the condition and placement of absorbent snakes, socks, pads, and fabrics.

5.0 STORMWATER SYSTEMS, CLEANING EVENTS

Plans for the annual cleaning of five stormwater interceptors were developed by LRTC's personnel with Environmental Technical Services in June 2003. Storm drain cleaning was increased to several times throughout the year beginning in June 2005 and remains an active part of LRTC's SWPPP. The interceptors are emptied on an-as-needed-basis to eliminate stormwater discharge to the Bay. A stormwater discharge permit was obtained from the City of Richmond's Waste Water Treatment Program to empty and clean all interceptors several times annually.

Prior to interceptor cleanout laboratory analytical results were presented to the City of Richmond Waste Water Division, Pretreatment Program, to determine whether the water removed from the stormwater interceptors could be discharged into the sanitary sewer. The City of Richmond inspected the storm drains and sanitary sewer, and discharge was approved under LRTC's Industrial Discharge Permit. The Waste Water Division was notified 48-hours prior to each project start to allow for city inspection.

LRTC's OSHA certified personnel emptied and cleaned the interceptors under a site-specific Health and Safety Plan. LRTC pumped water from the interceptors utilizing a specially equipped water truck. Water was discharged from the water truck directly into the sanitary sewer. Sediment was removed from the interceptors using stormwater to liquefy the sediment, which was then pumped into the vacuum trailer or water truck and recycled back onto the stockpiles from which it was generated. Subsequent to emptying, each interceptor's floor and sidewalls were pressure-washed. This process was repeated until all sediment had been removed and the cleaning of each interceptor complete.

6.0 STORMWATER SYSTEMS, SAMPLE COLLECTION AND ANALYSES

6.1 Sample Collection

A groundwater monitoring pump (GMP) was purchased by LRTC to obtain an undisturbed representative sample of collected stormwater. Non-toxic FDA approved tubing was attached to the pump to transport stormwater into the appropriate containers

A composite stormwater sample was collected by opening an access port into the large interceptor cover. A GMP was lowered into standing water in the last chamber and pumped into appropriate preserved sample containers. Three discrete, 40-ml, Volatile Organics Analysis bottles were filled from each interceptor to be composited by a State certified analytical laboratory as one sample for analysis. Stormwater samples for all other analyses were composited during field sampling. This was accomplished by collecting equal amounts of water from each interceptor within a laboratory supplied clean 2.5 gallon Teflon container. Upon completion this water was then decanted into sample bottles. Certified clean, properly preserved bottles were supplied by a state certified analytical laboratory.

Each sample bottle was labeled with LRTC as the project name, stormwater system identification number, sampler's name, date, time and preservative. The samples were placed within a cooler on ice, and transported to Accutest Laboratories, Certificate No. 08258CA, under chain of custody, within the sample's holding time.

6.2 Analyses

The following storm water samples were collected and analyzed:

Date	Description	Analyses Performed
11/2/2010	Composite Sample SW-2 through SW-7	1,2
1/13/2011	Discrete samples SW-2 through SW-6	1,2,3,4
1/27/2011	Composite Sample SW1 – SW-7	1
3/17/2011	Composite Sample SW-1 through SW-7	1
3/18/2011	Discrete samples SW-3 through SW-7	1,2,3,4
5/25/2011	Discrete samples for SW-6N, SW-6S and SW-7N, SW-7S	2, 4

1. Samples analyzed for oil and grease (O&G, using EPA Method 1664); benzene, toluene, ethylbenzene, total xylenes, (BTEX, using EPA Method 8021); Specific Conductivity (SC, using EPA Method SM2510B); pH (using EPA Method SM4500H+B); copper, lead, nickel, and zinc (Cu, Pb, Ni, Zn, using EPA Method 200.8) total suspended solids (TSS, using Standard Method E160.2 or SM2540D); and biological oxygen demand (BOD, using Standard Method SM5210B).
2. Samples analyzed for pesticides and PCBs (optional) using EPA methods SW8081A and 8082 respectively.
3. Samples analyzed for Aluminum and Iron (EPA Method E200.7), Chemical Oxygen Demand (COD EPA Method SM5220D), Vanadium (EPA Method E200.8), Total Petroleum Hydrocarbons (TPH EPA Method SW8015B), TPHg (EPA Method SW8260B)
4. BOD not analyzed.

Analytical results are summarized in Tables A through G, Attachment C, Tables of Analytical Results.

A composite sample was collected from non-discharging interceptors SW-2 through SW-7 and analyzed for the purpose of emptying and cleaning out the stormwater systems then discharging captured water into the municipal sanitary sewer and EPA parameters pesticides and polychlorinated biphenyls (PCBs), on November 2, 2010.

Discrete samples were collected from discharging interceptors SW-2 through SW-6 during a rainfall event on January 13, 2011 and analyzed in compliance with LRTC's General Permit for Annual Stormwater reporting to the SFRWQCB. The samples were also analyzed for the EPA parameters.

A composite sample was collected from non-discharging interceptors SW-1 through SW-7 on January 27 and March 17, 2011. The sample was collected for the purpose of emptying and cleaning out the stormwater systems then discharging captured water into the municipal sanitary sewer.

Discrete stormwater samples were collected from non-discharging interceptors SW-3 through SW-7 on March 18, 2011 and analyzed for all parameters to evaluate the impact of extraordinary rainfall, high tides, and the March 11, 2011 tsunami on these systems.

7.0 SUMMARY

On November 2, 2010, ETS collected a composite sample from non-discharging stormwater systems SW-2 through SW-7. On January 13, 2011, ETS collected discrete samples from discharging interceptors SW-2 through SW-6 during a rain event. All samples were non-detect for organochlorine pesticides and PCB's using EPA Methods 8081 and 8082 respectively.

On March 18, 2011, due to extraordinary rainfall, high tides, and the March 11, 2011 tsunami, ETS collected discrete samples from non-discharging stormwater interceptors SW-3 through SW-7 to determine if these events may have impacted the stormwater systems. Analytical results for all of the systems were non-detect for organochlorine pesticides with the exception of p, p-DDE and p, p-DDT detected within SW-6 at 0.045 and 0.54 ppb respectively and Dieldrin within SW-7 at 0.015 ppb.

The interceptors were constructed with three tiered chambers divided by baffles. On May 25, 2011 ETS elected to collect a sample from the north (inflow) and south (outflow) chambers of SW-6 and SW-7 to determine the source of pesticides. The samples were designated as SW-6N, SW-6S, SW-7N and SW-7S.

All pesticides were non-detect within SW-6N and SW-6S with the exception of p, p-DDT detected at 0.10 and 0.17 ppb respectively. All pesticides were non-detect within SW-7N and SW-7S with the exception of except Dieldrin detected in SW-7N at 0.029 ppb.

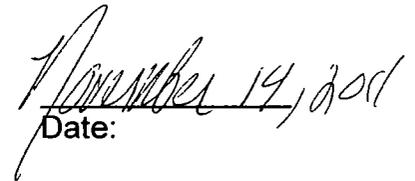
The cap was inspected by a concrete contractor and reported to be in good condition, the cap has not been disturbed, there were no changes to the parcel, or work performed that would impact the stormwater interceptors. Therefore it appears that the presence of pesticides was an anomaly. The interceptors have been emptied and cleaned. The stormwater lines associated with SW-6 and SW-7 are scheduled to be cleaned by NRC Environmental prior to the 2011-2012 wet season. The integrity of the stormwater systems will also be examined.

ETS will continue to monitor the systems for pesticides and PCBs throughout the 2011-2012 annual reporting year.

The finding and results submitted in this document satisfy the requirements of the Operations and Maintenance Plan, as stipulated by the U.S. EPA Consent Decree for the completed Upland Cap Installation for the Former United Heckathorn Facility, Richmond, California.

Prepared by:


Helen A. Mawhinney
ENVIRONMENTAL TECHNICAL SERVICES
Sr. Environmental Specialist

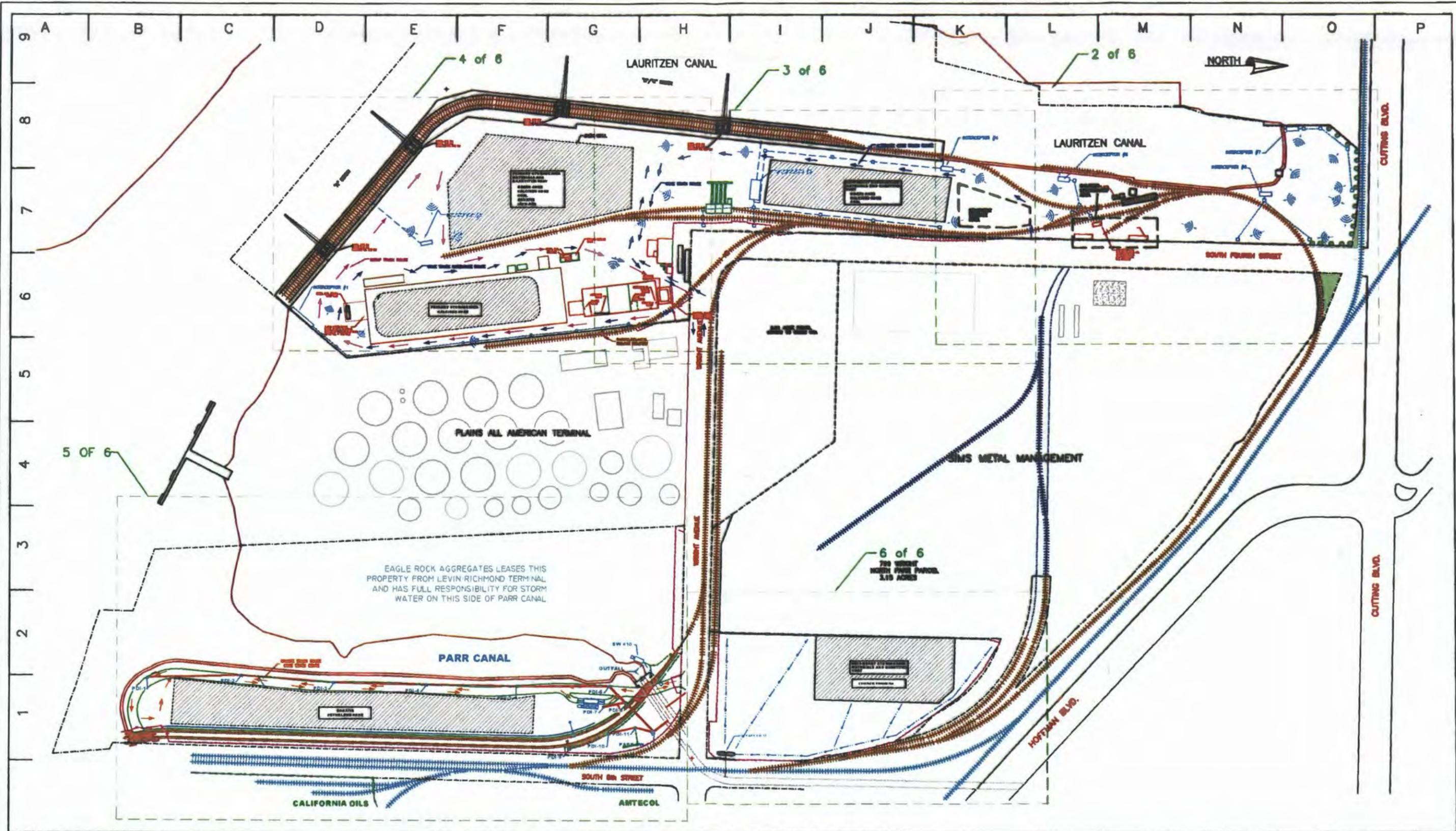

Date:

Levin Richmond Terminal Trained Stormwater Pollution Prevention, Spill Response Team:

PERSONNEL	TITLE/POSITION	SWPPP RESPONSIBILITY
Helen Mawhinney	Environmental Technical Services (ETS) Owner/Senior Environmental Specialist	Develop Stormwater Pollution Prevention Plan, Monitoring Plan, and Annual Report; supervise stormwater pollution prevention; perform random third party site inspections; direct stormwater supervisors in implementation of BMPs; conduct stormwater pollution prevention training, including sample collecting; perform stormwater sampling; monitor SWPPP materials placement; develop new BMPs, assist in implementation of current BMPs; and sample and profile yard sweepings
Bill Buffalow	Director of Operations	Supervise stormwater program, review stormwater reports, report to CEO, support stormwater pollution prevention activities and personnel
Jim Holland	Facilities and Equipment	Engineer and supervise the construction of structural stormwater pollution prevention controls.
Tony Lester	Levin Richmond Terminal (LRTC) Operations Supervisor	Supervise stormwater pollution prevention; perform site inspections; direct employees in implementation of BMPs; perform tailgate meetings/briefings; conduct interim training; perform stormwater sampling; monitor SWPPP materials condition, inventory, placement; develop new BMPs, implement current BMPs; supervise maintenance of SWPPP equipment (sweepers, vacuum trucks, implement and supervise cleanout of stormwater systems
Jim Alexander James Parks Danny Flippen James Sanchez Mitch Moreno Hector Flippen Drew Ramirez Jim Sanchez	Levin Richmond Terminal (LRT) Operating Engineers	Clean and maintain SWPPP-designated storage room, sweep and clean site, clean oily equipment, maintain equipment, place oil pans/absorbents under equipment, replace SWPPP materials, clean stormwater systems

Attachment A
Maps

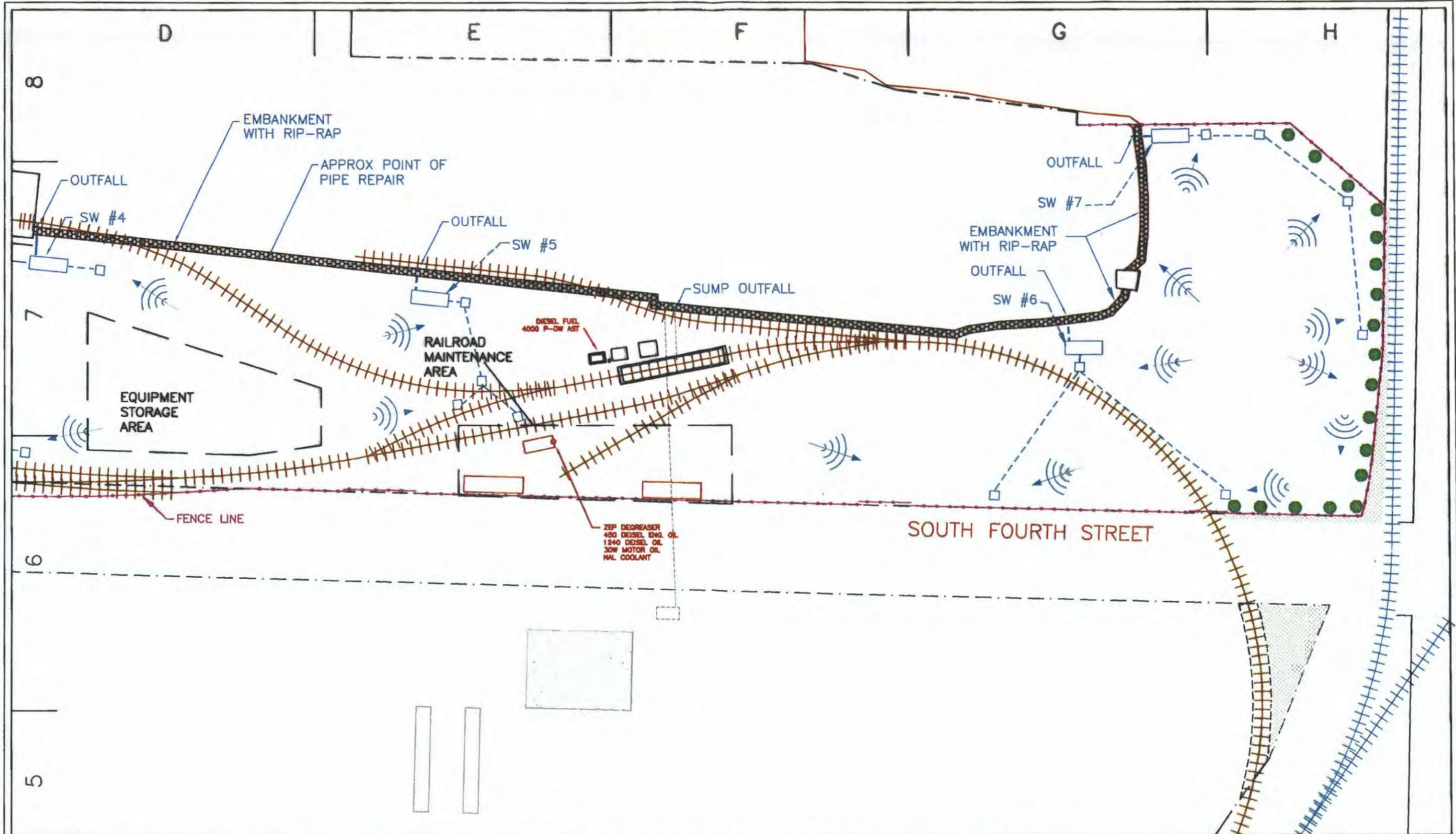
GA:\AutoCad\dwg\stormwater\LEVINRICHMOND\STORMWATER PLANS UPDATED 6-15-10.dwg 7/7/2011 10:20:05 AM



SCALE 1" = 200'

LEVIN-RICHMOND TERMINAL
 STORM WATER FLOW, CATCH BASINS AND INTERCEPTORS
 OVERALL VIEW OF MAIN TERMINAL, SOUTH AND NORTH PARR YARDS

1 OF 6
 DATE: 6/15/10



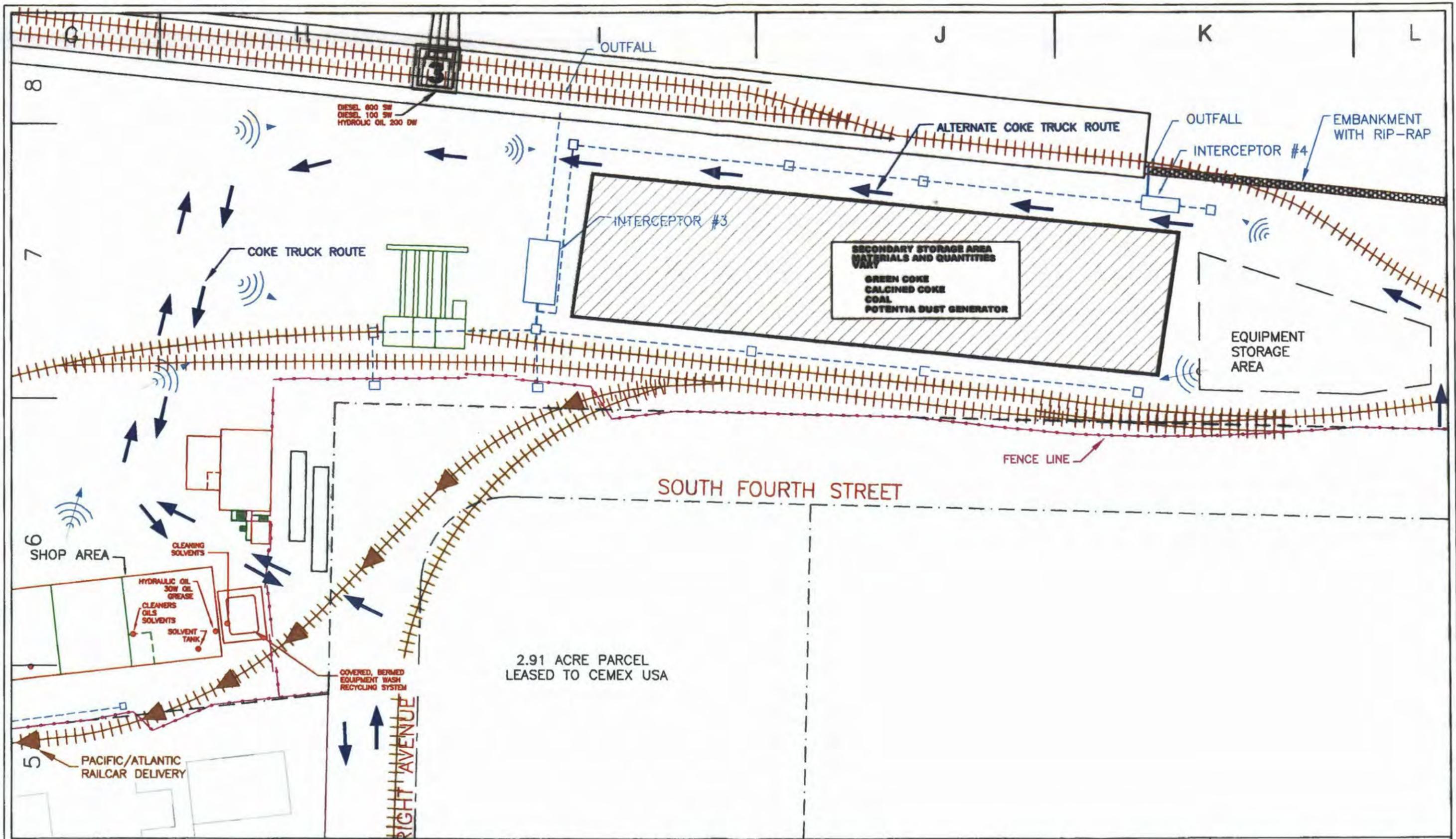
G:\AutoCad\Drawings\STORMWATER\DWG\STORMWATER PLANS UPDATED 6 15 10.dwg 7/7/2011 10:20:49 AM

SCALE 1" = 60'

LEVIN-RICHMOND TERMINAL
 STORM WATER FLOW, CATCH BASINS AND INTERCEPTORS
 NORTH MAIN YARD STORMWATER SYSTEMS

2 OF 6

DATE: 6/15/10



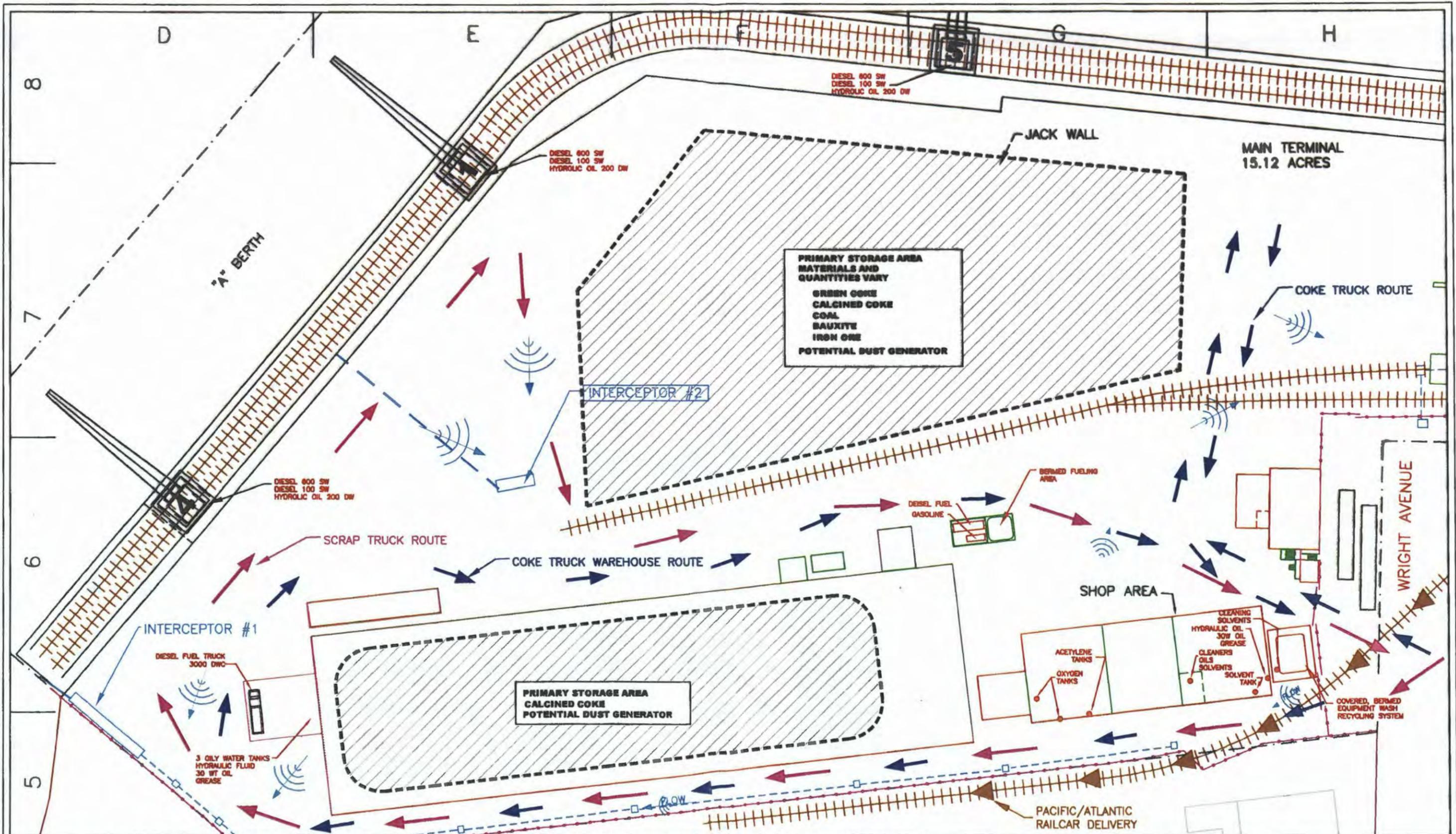
G:\AutoCad drawings\STORMWATER DWGS\STORMWATER PLANS UPDATED 6-15-10.dwg 7/7/2011 10:21:18 AM

SCALE 1" = 60'

LEVIN-RICHMOND TERMINAL
 STORM WATER FLOW, CATCH BASINS AND INTERCEPTORS
 CENTRAL YARD - ALTERNATE MATERIAL STORAGE AREA AND TRUCK FLOWS

3 OF 6

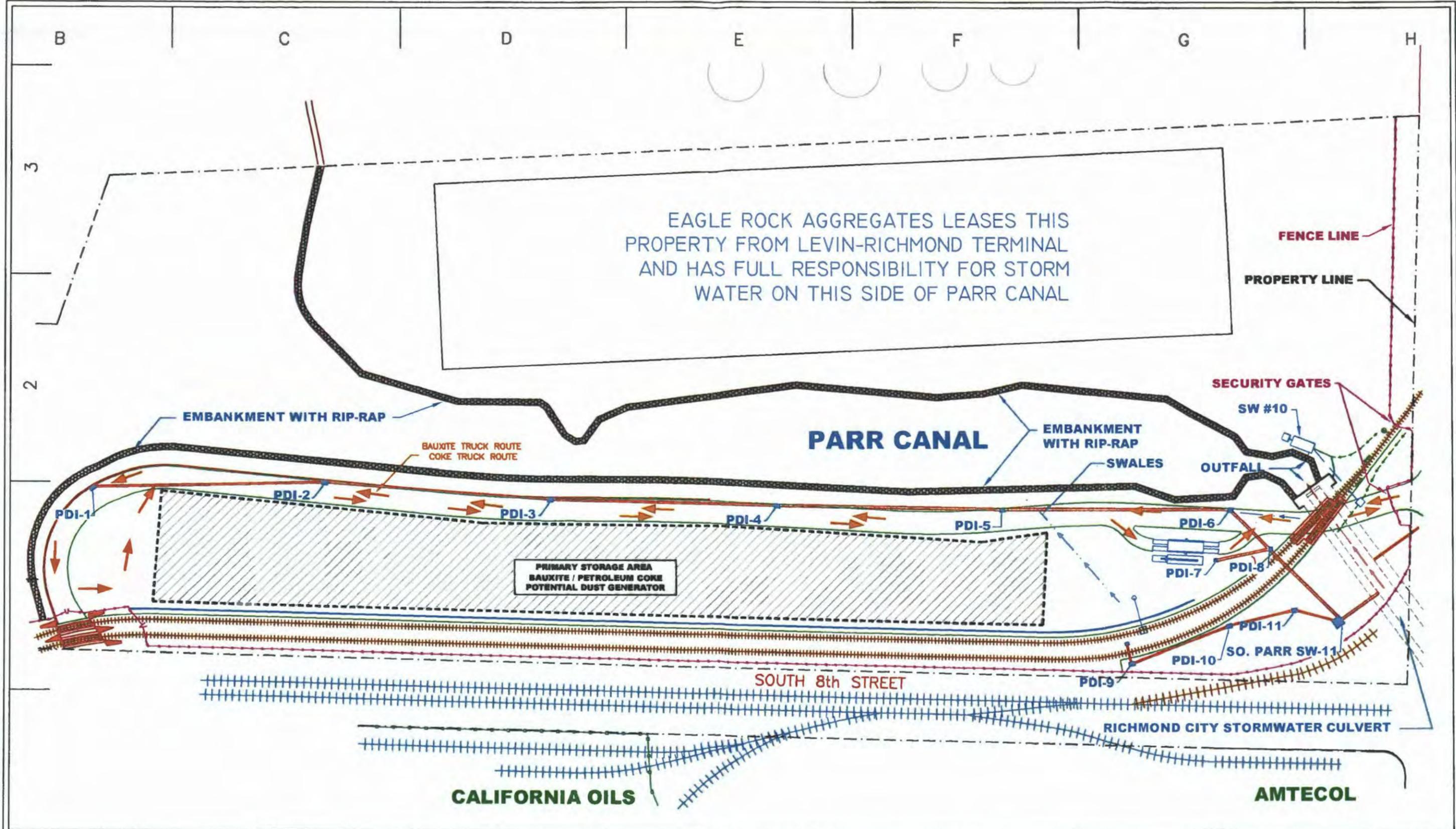
DATE: 6/15/10



SCALE 1" = 60'

LEVIN-RICHMOND TERMINAL
STORM WATER FLOW, CATCH BASINS AND INTERCEPTORS
MAIN YARD MATERIAL STORAGE AREAS AND TRUCK FLOWS

G:\AutoCad drawings\STORMWATER DWG\STORMWATER PLANS UPDATED 6 15 10.dwg 7/7/2011 10:21:40 AM



SCALE 1" = 80'

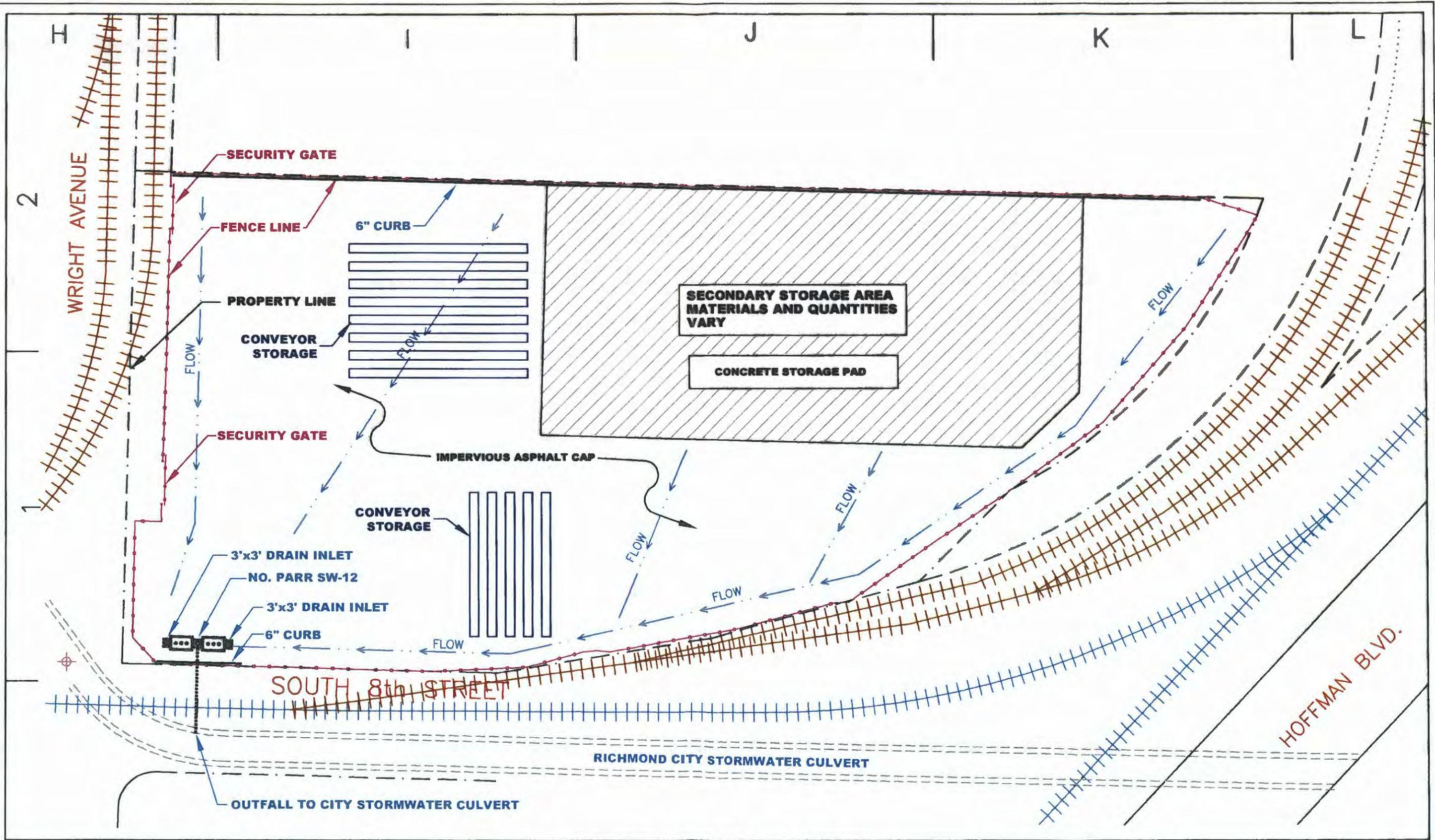
LEVIN-RICHMOND TERMINAL
STORM WATER FLOW, CATCH BASINS AND INTERCEPTORS
SOUTH PARR MATERIAL STORAGE AREA AND TRUCK FLOWS

5 OF 6

DATE: 6/15/10

C:\AutoCad\Drawings\STORMWATER\DWG\STORMWATER PLANS UPDATED 6-15-10.dwg 7/7/2011 10:23:06 AM

GIS/Arc/Cad & wing/stormwater DWG/STORMWATER PLANS UPDATED 6-15-10.dwg, 7/7/2011, 10:22:22 AM



SCALE 1" = 50'

LEVIN-RICHMOND TERMINAL
 STORM WATER FLOW, CATCH BASINS AND INTERCEPTORS
 NORTH PARR YARD ALTERNATE STORAGE AREA

6 OF 6

DATE: 6/15/10

Attachment B
Buster Building, General Contractor
License No. 513203
Inspection of Concrete Cap
June 22, 2011

BUSTER BUILDING, License 513203 C8

298 Cragmont, San Jose, California 95127 Phone: (408) 251-5446 Fax: (408) 251-3158 busterbn@pacbell.net

June 22, 2011

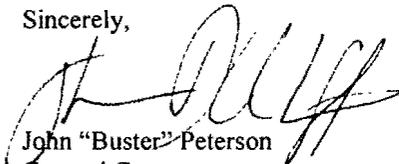
Environmental Technical Services
1548 Jacob Ave
San Jose, CA 95118
Attn: Helen Mawhinney
Senior Environmental Specialist

**RE: Upland Cap Inspection, Former United Heckathorn Facility
402 Wright Avenue, Richmond, California**

The Upland Cap located at the Former United Heckathorn Facility, was inspected by John Peterson for Buster Building, General Contractor, License No. 513203 C8 (concrete) on June 22, 2011, and found to be intact and in good condition.

The cap was found to be uncompromised and in good condition, with only occasional surface hairline cracks typical of those that develop subsequent to the curing of freshly poured concrete. The cracks are insignificant and not indicative of stress fractures. These surface cracks are too small to repair.

Sincerely,

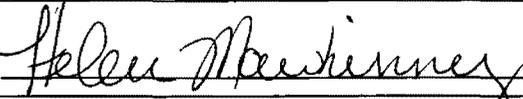

John "Buster" Peterson
General Contractor

Attachment C
Tables of Analytical Results
Stormwater Samples Collected
Prior to Interceptor Cleanout
November 2, 2010
January 13, 2011
January 27, 2011
March 17, 2011
March 18, 2011
May 25, 2011

Table 1

LEVIN RICHMOND TERMINAL STORMWATER INTERCEPTOR CLEANOUT OR INHOUSE COMPOSITE MONITORING				
Composite Sample SW-2 through SW-7 collected on November 2, 2010 analyzed for BTEX, Copper, Lead, Nickel, Zinc, Oil & Grease, TSS, BOD, and Spec. Cond.	Person Collecting Sample: Helen Mawhinney, Environmental Technical Services (ETS) Title: Senior Environmental Specialist Analytical Laboratory: McCampbell Analytical Labs, Inc. DHS ELSAP Cert No 1644			
Analysis SW-2 - SW-7	Composite SW-2-SW-7	Reporting Limit	Unit	EPA Method
Sample Date: 11/2/2010				
TOG (Hexane Extractable Material-HEM)	ND	5	ppm	E1664A
Aluminum	NA	50	ppb	E200.7
Iron	NA	50	ppb	E200.7
COD	NA	10	ppm	SM5220D
TPHg	NA	50	ppb	SW5030B
Benzene	ND	0.5	ppb	SW8021B/8015Bm
Ethylbenzene	ND	0.5	ppb	SW8021B/8015Bm
MTBE	NA	5	ppb	SW8021B/8015Bm
Toluene	ND	0.5	ppb	SW8021B/8015Bm
Total Xylenes	ND	0.5	ppb	SW8021B/8015Bm
Copper	14	0.5	ppb	E200.8
Lead	19	0.5	ppb	E200.8
Nickel	4	0.5	ppb	E200.8
Zinc	110	5	ppb	E200.8
pH	7.50 @ 22.5°C	not listed	su	SM4500H+B
Specific Conductivity	1070 @ 25.0°C	10 µmhos /cm @ 25°C	µmhos /cm	SM2510B
TPH-Diesel (C10-C23)	NA	50	ppb	SW8015B
TPH-Motor Oil (C18-C36)	NA	250	ppb	SW8015B
Total Suspended Solids (TSS)	12.4	1	ppm	SM2540D
Pesticides	ND	varies	ppb	SW8081A/8082
Total Organic Carbon (TOC)	NA	0.3	ppm	E415.3
Biological Oxygen Demand (BOD)	ND	4	ppm	SM5210B
Polychlorinated Biphenyls (PCBs)	ND	0.5	ppb	SW8081A/8082
*NA=Not Analyzed, ND=Non-Detect				

Table 2

LEVIN RICHMOND TERMINAL STORMWATER INTERCEPTOR DISCRETE SAMPLES FROM WATER STORMWATER SYSTEMS SW-2 through SW-6 January 13, 2011								
	Date	Time						
Discharge	1/13/2011	11:50 AM						
Sample	1/13/2011	12:45 PM						
Person Collecting Sample:	Helen Mawhinney, Environmental Technical Services (ETS)							
Title:	Senior Environmental Specialist							
Signature:								
Analytical Laboratory: McCampbell Analytical Labs, Inc. OHS ELSAP Cert No 1644								
Analytical Results	SW-2	SW-3	SW-4	SW-5	SW-6	Reporting Limit	Unit	EPA Method
Analyte	Result	Result	Result	Result	Result	Limit	Unit	Method
O&G	ND	ND	ND	ND	ND	5	ppm	SM5520B/F
Aluminum	3100	180	160	110	61	50	ppb	E200.7
Iron	7000	800	500	270	120	50	ppb	E200.7
COD	35	27	ND	ND	ND	10	ppm	SM5220D
TPHg	ND	ND	ND	ND	ND	50	ppb	SW8260B
Benzene	ND	ND	ND	ND	ND	0.5	ppb	8260B
Ethylbenzene	ND	ND	ND	ND	ND	0.5	ppb	8260B
MTBE	ND	ND	ND	ND	ND	0.5	ppb	8260B
Toluene	ND	ND	ND	ND	ND	0.5	ppb	8260B
Total Xylenes	ND	ND	ND	ND	ND	0.5	ppb	8260B
Copper	38	6.1	7.4	12	6.4	0.5	ppb	E200.8
Lead	46	6.2	3.4	5.4	3.8	0.5	ppb	E200.8
Vanadium	18	5.5	4	2.8	2.9	0.5	ppb	E200.8
Zinc	380	61	35	55	19	5	ppb	E200.8
pH	7.51 @ 19.8°C	7.56 @ 19.8°C	7.40 @ 18.5°C	7.25 @ 20.2°C	7.62 @ 19.2°C	±0.05, pH units @ °C	su	SM4500H+B
Specific Conductivity	239 @ 25.0°C	2440 @ 25.0°C	224 @ 25.0°C	75.7 @ 25.0°C	77.1 @ 25.0°C	10 umhos /cm @ 25°C	umhos /cm	SM2510B
TPH-Diesel (C10-C23)	180	57	ND	ND	ND	50	ppb	SW8015B
TPH-Motor Oil (C18-C36)	480	ND	ND	ND	ND	250	ppb	SW8015B
TSS	97	25.5	5.4	3.8	ND	1	ppm	SM2540D
Pesticides	ND	ND	ND	ND	ND	varies	ppb	SW8081A
TOC	5	3.9	0.93	2.5	1.2	0.3	ppm	E415.3
PCBs	ND	ND	ND	ND	ND	0.5	ppb	8082

Note: ND=Non Detect for the lower reporting limit of this analyte.

Table 3

LEVIN RICHMOND TERMINAL STORMWATER INTERCEPTOR CLEANOUT OR INHOUSE COMPOSITE MONITORING				
Composite Sample SW-1 - SW-7 collected on January 27, 2011 and analyzed for BTEX, Copper, Lead, Nickel, Zinc, Oil & Grease (HEM), PH, TSS, BOD, and Spec. Cond.		Person Collecting Sample: Helen Mawhinney, Environmental Technical Services (ETS) Title: Senior Environmental Specialist Analytical Laboratory: McCampbell Analytical Labs, Inc. DHS ELSAP Cert No 1644		
Analysis SW-1 - SW-7 Composite				
Sample Date: 1/27/2011	Composite SW-1-SW-7	Reporting Limit	Unit	EPA Method
TOG (Hexane Extractable Material-HEM)	ND	5	ppm	E1664A
Aluminum	NA	50	ppb	E200.7
Iron	NA	50	ppb	E200.7
COD	NA	10	ppm	SM5220D
TPHg	NA	50	ppb	SW5030B
Benzene	ND	0.5	ppb	SW8021B/8015Bm
Ethylbenzene	ND	0.5	ppb	SW8021B/8015Bm
MTBE	NA	5	ppb	SW8021B/8015Bm
Toluene	ND	0.5	ppb	SW8021B/8015Bm
Total Xylenes	ND	0.5	ppb	SW8021B/8015Bm
Copper	5	0.5	ppb	E200.8
Lead	3.5	0.5	ppb	E200.8
Nickel	1.6	0.5	ppb	E200.8
Zinc	71	5	ppb	E200.8
pH	7.54 @ 19.9°C	not listed	su	SM4500H+B
Specific Conductivity	988 @ 25.0°C	10 µmhos/cm @ 25°C	umhos/cm	SM2510B
TPH-Diesel (C10-C23)	NA	50	ppb	SW8015B
TPH-Motor Oil (C18-C36)	NA	250	ppb	SW8015B
Total Suspended Solids (TSS)	18	1	ppm	E160.2
Pesticides	NA	varies	ppb	SW8081A/8082
Total Organic Carbon (TOC)	NA	0.3	ppm	E415.3
Biological Oxygen Demand (BOD)	ND	4	ppm	SM5210B
Polychlorinated Biphenyls (PCBs)	NA	0.5	ppb	SW8081A/8082

*NA=Not Analyzed, ND=Non-Detect

Table 4

LEVIN RICHMOND TERMINAL STORMWATER INTERCEPTOR CLEANOUT OR INHOUSE COMPOSITE MONITORING				
Composite Sample SW-1 through SW-7 collected on March 17, 2011 analyzed for BTEX, Copper, Lead, Nickel, Zinc, Oil & Grease, TSS, BOD, and Spec. Cond.		Person Collecting Sample: Helen Mawhinney, Environmental Technical Services (ETS) Title: Senior Environmental Specialist Analytical Laboratory: McCampbell Analytical Labs, Inc. DHS ELSAP Cert No 1644		
Analysis SW-1 - SW-7	Composite SW-1-SW-7	Reporting Limit	Unit	EPA Method
Sample Date: 3/17/2011				
TOG (Hexane Extractable Material-HEM)	ND	5	ppm	E1664A
Aluminum	610	50	ppb	E200.7
Iron	1300	50	ppb	E200.7
COD	NA	10	ppm	SM5220D
TPHg	NA	50	ppb	SW5030B
Benzene	ND	0.5	ppb	SW8021B/ 8015Bm
Ethylbenzene	ND	0.5	ppb	SW8021B/ 8015Bm
MTBE	NA	5	ppb	SW8021B/ 8015Bm
Toluene	ND	0.5	ppb	SW8021B/ 8015Bm
Total Xylenes	ND	0.5	ppb	SW8021B/ 8015Bm
Copper	8.6	0.5	ppb	E200.8
Vanadium	6.8	0.5	ppb	E200.8
Nickel	3.1	0.5	ppb	E200.8
Zinc	72	5	ppb	E200.8
pH	.09 @ 18.0°C	not listed	su	SM4500H+ B
Specific Conductivity	156 @ 25.0°C	10 µmhos /cm @ 25°C	µmhos /cm	E120.1
TPH-Diesel (C10-C23)	NA	50	ppb	SW8015B
TPH-Motor Oil (C18-C36)	NA	250	ppb	SW8015B
Total Suspended Solids (TSS)	20	1	ppm	E160.2
Pesticides	NA	varies	ppb	SW8081A/ 8082
Total Organic Carbon (TOC)	NA	0.3	ppm	E415.3
Biological Oxygen Demand (BOD)	ND	4	ppm	SM5210B
Polychlorinated Biphenyls (PCBs)	NA	0.5	ppb	SW8081A/ 8082

*NA=Not Analyzed, ND=Non-Detect

Table 5

LEVIN RICHMOND TERMINAL STORMWATER INTERCEPTOR DISCRETE SAMPLES FROM WATER STORMWATER SYSTEMS SW-3 Through SW-7 3/18/2011								
LRT March 18, 2011 Discrete Samples for SW-3 through SW-7.	Person Collecting Sample: Helen Mawhinney, Environmental Technical Services (ETS) Title: Senior Environmental Specialist							
Analysis SW-3 - SW-7	SW-3	SW-4	SW-5	SW-6	SW-7			
Sample Date: 3/18/2011	Result	Result	Result	Result	Result	Reporting Limit	Unit	EPA Method
TOG (Hexane Extractable Material- HEM)	ND	ND	ND	ND	ND	5	ppm	E1664A
Pesticides	ND	ND	ND			Varies	ppb	SW8081A
p,p-DDE	ND	ND	ND	0.045	ND	0.01	ppb	SW8081A
p,p-DDT	ND	ND	ND	0.54	ND	0.01	ppb	SW8081A
Dieldrin	ND	ND	ND	ND	0.015	0.01	ppb	SW8081A
PCBs	ND	ND	ND	ND	ND	0.5	ppb	8082
Aluminum	4400	1600	740	470	310	50	ppm	E200.7
Iron	11000	4000	2200	910	570	50	ppm	E200.7
COD	33	10	ND	ND		10	ppm	SM5220D
TPH(g)	ND	ND	ND	ND	ND	50	ppb	SW8260B
Benzene	ND	ND	ND	ND	ND	0.5	ppb	SW8260B
Ethylbenzene	ND	ND	ND	ND	ND	0.5	ppb	SW8260B
MTBE	ND	ND	ND	ND	ND	0.5	ppb	SW8260B
Toluene	ND	ND	ND	ND	ND	0.5	ppb	SW8260B
Total Xylenes	ND	ND	ND	ND	ND	0.5	ppb	SW8260B
Copper	18	24	NS	10	10	0.5	ppb	E200.8
Lead	29	31	NS	10	6.1	0.5	ppb	E200.8
Vanadium	21	13	NS	15.5	4.7	0.5	ppb	E200.8
Zinc	190	160	NS	65	43	5	ppb	E200.8
Specific Conductivity	247 @ 25.0°C	140 @ 25.0°C	64.4 @ 25.0°C	64.5 @ 25.0°C	128 @ 25.0°C	10 umhos /cm @ 25°C	umhos /cm	SM2510B
TOC	1.6	2.1	1.7	1.8	3.1	0.3	ppm	E415.3
TPH-Diesel (C10-C23)	ND	130	54	54	ND	50	ppb	SW8015B
TPH-Motor Oil (C18-C36)	ND	ND	ND	ND	ND	760	ppb	SW8015B
TSS	420	88	72	18	12.2	1	ppm	SM2540D

* All pesticides analyzed using EPA Method 8081 were non-detect except the positive results reported.

Table 6

LEVIN RICHMOND TERMINAL STORMWATER INTERCEPTOR PESTICIDES ANALYSIS FOR SW-6 (N/S) and SW-7 (N/S)							
LRT Discrete Samples for SW-6 (N/S) and SW-7 (N/S).	Person Collecting Sample: Helen Mawhinney, Environmental Technical Services (ETS) Title: Senior Environmental Specialist						
	Analytical Laboratory: McCampbell Analytical Labs, Inc. DHS ELSAP Cert No 1644						
	SW-6N	SW-6S	SW-7N	SW-7S	Reporting Limit	Unit	EPA Method
Sample Date: 5/25/2011							
p,p-DDE	ND	ND	ND	ND	0.01	ppb	SW8081A /8082
p,p-DDT	0.1	0.17	ND	ND	0.01	ppb	SW8081A /8082
Dieldrin	ND	ND	ND	0.029	0.01	ppb	SW8081A /8082
*All pesticides analyzed using EPA Method 8081 were non-detect except the positive results reported.							

Attachment D

Laboratory Analytical Reports

November 2, 2010

January 13, 2011

January 27, 2011

March 17, 2011

March 18, 2011

May 25, 2011

Laboratory Analytical Report

**Composite Sample
SW-2 Through SW-7
November 2, 2010**

 McC Campbell Analytical, Inc. "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 925-252-9262 Fax: 925-252-9269	
Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRTO Discharge 110210	Date Sampled: 11/02/10	
		Date Received: 11/03/10	
	Client Contact: Helen Mawhinney	Date Reported: 11/09/10	
	Client P.O.: #TL20454	Date Completed: 11/09/10	

WorkOrder: 1011118

November 09, 2010

Dear Helen:

—Enclosed within are:

- 1) The results of the 2 analyzed samples from your project: LRTO Discharge 110210,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,



Angela Rydelius
 Laboratory Manager
 McC Campbell Analytical, Inc.

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1011118

ClientCode: ETS

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Report to:

Helen Mawhinney
Environmental Technical Services
1548 Jacob Avenue
San Jose, CA 95118
510-385-4308 FAX 510-522-6259

Email: HMawhinneyETS@aol.com
cc:
PO. #TL20454
ProjectNo: LRTO Discharge 110210

Bill to:

Helen Mawhinney
Environmental Technical Services
1548 Jacob Avenue
San Jose, CA 95118
HMawhinneyETS@aol.com

Requested TAT: 5 days

Date Received: 11/03/2010

Date Printed: 11/03/2010

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1011118-001	SW2-SW7	Water	11/2/2010 12:10	<input type="checkbox"/>	D		A	C	C	B						
1011118-002	SW2,3,4,5,6,7	Water	11/2/2010 12:10	<input type="checkbox"/>		A										

Test Legend:

1	1664A W
6	TSS W
11	

2	G-MBTEX W
7	
12	

3	METALSMS W
8	

4	PH W
9	

5	SC W
10	

Prepared by: Melissa Valles

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



CHAIN OF CUSTODY

Laboratory 2105 Lundy Ave San Jose CA 95131
 Phone (408) 588-0200 Fax (408) 588-0201
 Irvine Service Center 17165 Von Karman Ave Suite 112 Irvine, CA 92614
 Phone (949) 250-9900

1011118

FED-EX Tracking #	Order Control #
Accutest Quote #	Accutest NC Job # C

Client / Reporting Information				Project Information										Requested Analysis										Matrix Codes			
Company Name: CAUIOR-TECH-SYCS Address: 1548 JACOB AVE City: SAN JOSE CA 95118 Project Contact: ALEXANDER Phone: 510 385 4308 Samples/Volume: L10m Alexander/Wendy				Project Name: LRTO Discharge 110210 Street: 402 Wright Ave City: Richmond CA Project #/Name: LRTO Discharge 110210 Client Purchase Order #/Remarks: [unclear] et seq / call refer to BAD PO please use										8260 FUS LXA1 D 624 D TPH as Gasoline D 8360 Petro (Include 8-BTEX / NDBE / TBA / EIBE / DIPE / TA ME / 1,2-DCA / EDBO TPH as Gas D 8376 PAHs only D 825 D -TICs D TPH-E: Extractable - Diesel - Motor Oil - Other D With Solids Cal Cleanup D METALS: CAN-170 LUF-150 BCRA-81 PPM-110 TTIC 2000 PH Pesticides-9081 D PCBs-4002 D 608 D BTEX-NDBE-TPH as Gasoline by GC-PIID-FID D Lnt Others: MSS SPEC 2000 PH Lnt Others: ORG 1664 / keep Lnt Others: BTEX 5086/8021 Lnt Others: BTEX 11.0 plan										WW- Wastewater GW- Ground Water SW- Surface Water ... L17- Non-aqueous LCs ... DW- Drinking Water Pesticide Only LAB USE ONLY			
Accutest Sample ID	Sample ID / Field Point / Point of Collection	Date	Time	Sampled by	Matrix	# of bottles	D	MUDH	FUS	8360	NOTE	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
X	SW2-SW7 *	11/10	12:10	DA HU W	LW	X																					
	SW2																										
	SW3 (Discrete)																										
	SW4 (40 ml VORS)																										
	SW5 (Composite)																										
	SW6 (at lab)																										
	SW7																										
<div style="display: flex; justify-content: space-between;"> <div> <p>Emergency T/A data available VIA Lablink</p> <p>Standard TAT 15 Business Days</p> <p>10 Day (Workload dependent)</p> <p>5 Day (Workload dependent) <i>Route via</i></p> <p>3 Day (125% markup) <i>Top</i></p> <p>2 Day (150% markup)</p> <p>1 Day (200% markup)</p> <p>Same Day (300% markup)</p> </div> <div> <p>Approved By / Date:</p> </div> <div> <p>Commercial "A" - Results only</p> <p>Commercial "B" - Results with QC summaries</p> <p>Commercial "B+" - Results, QC, and chromatograms</p> <p>FULT1 - Level 4 data package</p> <p>EDF for Geotracker EDD Format</p> <p>Provide EDF Global ID</p> <p>Provide EDF Logcode</p> </div> <div> <p>Comments / Remarks:</p> <p>use PO# on same date BOD DOC</p> <p>PEO EXED TO DAY!</p> <p>Metals = Cu, Pb, Ni, Zn</p> </div> </div>																											
Relinquished by: [Signature] Date/Time: 11-2-10				Received By: ETS Fridge Date/Time: 11-2-10										Relinquished by: [Signature] Date/Time: 11-3-10										Received By: [Signature] Date/Time: 11-2-10			
Relinquished by: [Signature] Date/Time: 11-3-10				Received By: [Signature] Date/Time: 11-3-10										Relinquished by: [Signature] Date/Time: 11-3-10										Received By: [Signature] Date/Time: 11-3-10			



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Sample Receipt Checklist

Client Name: **Environmental Technical Services**

Date and Time Received: **11/3/2010 6:09:58 PM**

Project Name: **LRTD Discharge 110210**

Checklist completed and reviewed by: **Melissa Valles**

WorkOrder N°: **1011118** Matrix: **Water**

Carrier: **Derk Cartan (MAL Courier)**

Chain of Custody (COC) Information

- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Sample IDs noted by Client on COC? Yes No
- Date and Time of collection noted by Client on COC? Yes No
- Sampler's name noted on COC? Yes No

Sample Receipt Information

- Custody seals intact on shipping container/cooler? Yes No NA
- Shipping container/cooler in good condition? Yes No
- Samples in proper containers/bottles? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

- All samples received within holding time? Yes No
 - Container/Temp Blank temperature Cooler Temp: 11.4°C NA
 - Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
 - Sample labels checked for correct preservation? Yes No
 - Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 - Samples Received on Ice? Yes No
- (Ice Type: WET ICE)

*NOTE: If the "No" box is checked, see comments below.

Client contacted

Date contacted

Contacted by:

Comments:

QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 54221 WorkOrder: 1011118

EPA Method E200.8	Extraction E200.8							Spiked Sample ID: 1011001-004A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Copper	84	10	86.9	120	3.54	96.7	93	3.82	70 - 130	20	85 - 115	20
Lead	ND	10	96.2	98.7	2.52	96.2	96.6	0.436	70 - 130	20	85 - 115	20
Nickel	1.9	10	89.7	94.7	4.51	104	97.3	6.53	70 - 130	20	85 - 115	20
Zinc	9.7	100	95	97.5	2.36	102	100	1.49	70 - 130	20	85 - 115	20
%SS:	103	750	104	106	1.85	101	101	0	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 54221 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1011118-001A	11/02/10 12:10 PM	11/03/10	11/04/10 5:06 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$.

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery

N/A = not applicable to this method

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content

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 _____ QA/QC Officer



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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID 54208

WorkOrder 101118

Analyte	EPA Method SW8021B/8015Bm			Extraction SW5030B					Spiked Sample ID: 1011101-002A				
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)				
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD	
TPH(btex) ^f	ND	60	129	127	1.58	129	124	4.25	70 - 130	20	70 - 130	20	
MTBE	ND	10	125	119	5.02	112	124	10.6	70 - 130	20	70 - 130	20	
Benzene	ND	10	100	96	4.24	94.9	101	6.58	70 - 130	20	70 - 130	20	
Toluene	ND	10	97	93	4.29	91.4	96.4	5.28	70 - 130	20	70 - 130	20	
Ethylbenzene	ND	10	96.9	93.1	4.00	91	96	5.34	70 - 130	20	70 - 130	20	
Xylenes	ND	30	97	93.7	3.47	91.4	96.2	5.08	70 - 130	20	70 - 130	20	
%SS:	103	10	99	95	3.80	94	99	5.59	70 - 130	20	70 - 130	20	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 54208 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1011118-002A	11/02/10 12:10 PM	11/05/10	11/05/10 5:17 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2)

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery

E TPH(btex) = sum of BTEX areas from the FID

cluttered chromatogram; sample peak coelutes with surrogate peak

N/A = not enough sample to perform matrix spike and matrix spike duplicate

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers

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JR QA/QC Officer

QC SUMMARY REPORT FOR E1664A

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 54089 WorkOrder 101118

EPA Method E1664A	Extraction E1664A							Spiked Sample ID: 1011078-001A					
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)				
	mg/L	mg/L	% Rec	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD	
HEMSGT	ND	20.83	103	N/A	N/A	95.4	92.4	3.17	70 - 130	N/A	70 - 130	30	
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE													

BATCH 54089 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1011118-001D	11/02/10 12:10 PM	11/07/10	11/08/10 3:15 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation

$$\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2)$$
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery
 N/A = not enough sample to perform matrix spike and matrix spike duplicate
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content

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 QA/QC Officer



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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRTO Discharge 110210	Date Sampled: 11/02/10
	Client Contact: Helen Mawhinney	Date Received: 11/03/10
	Client P.O.: #TL20454	Date Extracted: 11/05/10
		Date Analyzed: 11/05/10

Total Suspended Solids*

Analytical Method: SM2540D

Work Order: 101118

Lab ID	Client ID	Matrix	Total Suspended Solids	DF	Comments
101118-001B	5W2-SW7	W	12.4	2	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	1.0 mg/L
	S	NA

* water samples reported in mg/L.
DF = Dilution Factor

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Angela Rydelius
Angela Rydelius, Lab Manager



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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRTO Discharge 110210	Date Sampled: 11/02/10
	Client Contact: Helen Mawhinney	Date Received: 11/03/10
	Client P.O.: #TL20454	Date Analyzed: 11/09/10
		Date Extracted: 11/09/10

Specific Conductivity*

Analytical Method: SM2510B

Work Order: 101118

Lab ID	Client ID	Matrix	Specific Conductivity	DF	Comments
101118-001C	SW2-SW7	W	1070 @ 25.0°C	1	

Reporting Limit for DF = 1, ND means not detected at or above the reporting limit	W	10 µmhos/cm @ 25°C	
	S	NA	
DF = Dilution Factor			

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A.R.
 Angela Rydelius, Lab Manager



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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRTO Discharge 110210	Date Sampled: 11/02/10
	Client Contact: Helen Mawhinney	Date Received: 11/03/10
	Client P.O.: #TL20454	Date Extracted: 11/03/10
		Date Analyzed: 11/03/10

pH

Analytical Method: SM4500H+B

Work Order: 101118

Lab ID	Client ID	Matrix	pH	DF	Comments
101118-001C	SW2-SW7	W	7.50 @ 22.5°C	1	

Method Accuracy and Reporting Units	W	±0.05, pH units @ °C
	S	NA

* According to the formal method, this is "field test" with a 15 minute Hold Time. However, as this is unrealistically short for commercial environmental analysis, MAI has designated a 24 hour hold time for aqueous samples.

DF = Dilution Factor

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AR
 _____ Angela Rydelius, Lab Manager



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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRTO Discharge 110210	Date Sampled: 11/02/10
	Client Contact: Helen Mawhinney	Date Received: 11/03/10
	Client P.O.: #TL20454	Date Extracted: 11/03/10
		Date Analyzed: 11/04/10

Metals*

Extraction method: E200.8		Analytical method: E200.8						Work Order: 101118		
Lab ID	Client ID	Matrix	Extraction Type	Copper	Lead	Nickel	Zinc	DF	% SS	Comments
001A	SW2-SW7	W	TOTAL	14	19	40	110	1	104	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	TOTAL	0.5	0.5	0.5	5.0	µg/L
	S	TOTAL	NA	NA	NA	NA	NA

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / WET / DI WET / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit, N/A means not applicable to this sample or instrument.

TOTAL - Hot acid digestion of a representative sample aliquot

TRM - Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container

DISS - Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample

%SS - Percent Recovery of Surrogate Standard

DF - Dilution Factor

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Angela Rydelius
Angela Rydelius, Lab Manager



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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRTO Discharge 110210	Date Sampled: 11/02/10
	Client Contact: Helen Mawhinney	Date Received: 11/03/10
	Client P.O.: #TL20454	Date Extracted: 11/05/10
		Date Analyzed: 11/05/10

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 101118

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
002A	SW2,3,4,5,6,7	W	--	--	ND	ND	ND	ND	1	100	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	50	50	0.5	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	mg/kg

* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

%SS - Percent Recovery of Surrogate Standard; DF = Dilution Factor

!The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation.

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AR
 Angela Rydelius, Lab Manager

**McCampbell Analytical, Inc.**

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 Web www.mccampbell.com E-mail mana@mccampbell.com
 Telephone 877-252-9262 Fax 925-252-9269

Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRTO Discharge 110210 Client Contact: Helen Mawhinney Client P.O.: #TL20454	Date Sampled: 11/02/10 Date Received: 11/03/10 Date Extracted: 11/07/10 Date Analyzed: 11/08/10				
Hexane Extractable Material without Silica Gel Clean Up*						
Extraction method: E1664A	Analytical methods: E1664A	Work Order: 101118				
Lab ID	Client ID	Matrix	HEM	DF	%SS	Comments
101118-0010	SW2-SW7	W	ND	1	N/A	
Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	5.0	mg/L			
	S	NA	NA			
* water samples and all TCLP & SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L DF - dilution factor (may be raised to dilute target analyte or matrix interference) %SS - Percent Recovery of Surrogate Standard # surrogate diluted out of range						

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Angela Rydelius, Lab Manager

QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: pH Matrix: W WorkOrder: 101118

Method Name: SM450CH+B		Units: ±, pH units @ °C				BatchID: 54199
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	Precision	Acceptance Criteria
101118-001C	7.50 @ 22.5°C	1	7.49 @ 22.6°C	1	0.01	0.05

BATCH 54199 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
101118-001C	11/02/10 12:10 PM	11/03/10	11/03/10 7:00 PM				

Test Method: Specific Conductivity Matrix: W WorkOrder: 101118

Method Name: SM2510B		Units: µmhos/cm @ 25°C				BatchID: 54122
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
101118-001C	1070 @ 25.0°C	1	1060 @ 25.0°C	1	0.659	<2

BATCH 54122 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
101118-001C	11/02/10 12:10 PM	11/09/10	11/09/10 1:20 PM				

Test Method: Total Suspended Solids Matrix: W WorkOrder: 101118

Method Name: SM2540D		Units: mg/L				BatchID: 54137
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
101118-001B	12.4	2	12.8	2	3.17	<15

BATCH 54137 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
101118-001B	11/02/10 12:10 PM	11/05/10	11/05/10 4:15 PM				

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation

Precision = Absolute Value (Sample - Duplicate)

$RPD = 100 * (Sample - Duplicate) / ((Sample + Duplicate) / 2)$

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.

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[Signature]
QA/QC Officer

Laboratory Analytical Report

**Discrete Samples
SW-2 Through SW-6
1/13/2011**

 McC Campbell Analytical, Inc. "When Quality Counts"	1514 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: info@mcccampbell.com Telephone: 927-252-9262 Fax: 925-252-9269	
	Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRT Annual 110113 Client Contact: Helen Mawhinney Client P.O.:

WorkOrder: 1101354

January 24, 2011

Dear Helen:

Enclosed within are:

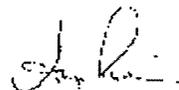
- 1) The results of the 5 analyzed samples from your project: LRT Annual 110113,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,



Angela Rydelius
 Laboratory Manager
 McC Campbell Analytical, Inc.



CHAIN OF CUSTODY

2105 Linden Ave., San Jose, CA 95131
408.261.2700 FAX 408.586.0021

1101354

Client/Reporting Information		Project Information		Requester Address		Requester Contact	
Company Name <i>Environmental Tech Services</i>	Project Name <i>Lavin Richmond Terminus</i>	Address <i>402 Wright Ave</i>	City <i>Kirkwood CA</i>	Requester Name <i>155, PH, Spencer</i>	Requester Title <i>COO, TOC</i>	Requester Phone <i>109 1664</i>	Requester Email <i>PH, CU, FE, PB, Z, V</i>
Address <i>1548 W. 10th Ave</i>	City <i>San Jose CA 95118</i>	Address <i>402 Wright Ave</i>	City <i>Kirkwood CA</i>	Requester Name <i>155, PH, Spencer</i>	Requester Title <i>COO, TOC</i>	Requester Phone <i>109 1664</i>	Requester Email <i>PH, CU, FE, PB, Z, V</i>
Phone <i>831.236.9221</i>	Project ID <i>LRT Annual 110113</i>	Address <i>402 Wright Ave</i>	City <i>Kirkwood CA</i>	Requester Name <i>155, PH, Spencer</i>	Requester Title <i>COO, TOC</i>	Requester Phone <i>109 1664</i>	Requester Email <i>PH, CU, FE, PB, Z, V</i>
Sample Name <i>He 101113</i>	Client Project Origin	Address <i>402 Wright Ave</i>	City <i>Kirkwood CA</i>	Requester Name <i>155, PH, Spencer</i>	Requester Title <i>COO, TOC</i>	Requester Phone <i>109 1664</i>	Requester Email <i>PH, CU, FE, PB, Z, V</i>
Collector		Date/Time		Number of Samples		Matrix Codes	
Collector Name <i>SW2</i>	Date/Time <i>12/1/11 12:45 PM</i>	Number of Samples <i>12</i>	Matrix Codes	Matrix Codes	Matrix Codes	Matrix Codes	Matrix Codes
Collector Name <i>SW3</i>	Date/Time <i>12/1/11 1:30 PM</i>	Number of Samples <i>12</i>	Matrix Codes	Matrix Codes	Matrix Codes	Matrix Codes	Matrix Codes
Collector Name <i>SW4</i>	Date/Time <i>12/1/11 1:40 PM</i>	Number of Samples <i>12</i>	Matrix Codes	Matrix Codes	Matrix Codes	Matrix Codes	Matrix Codes
Collector Name <i>SW5</i>	Date/Time <i>12/1/11 1:40 PM</i>	Number of Samples <i>12</i>	Matrix Codes	Matrix Codes	Matrix Codes	Matrix Codes	Matrix Codes
Collector Name <i>SW6</i>	Date/Time <i>12/1/11 1:40 PM</i>	Number of Samples <i>12</i>	Matrix Codes	Matrix Codes	Matrix Codes	Matrix Codes	Matrix Codes

Standard TAT's Business Days

1 Day (standard dependent)

5 Day (Worked dependent)

3 Day (12C's without)

2 Day (10C's without)

1 Day (10C's without)

Same Day (10C's without)

Emergency T/A data available via E-mail

Standard TAT's Business Days

1 Day (standard dependent)

5 Day (Worked dependent)

3 Day (12C's without)

2 Day (10C's without)

1 Day (10C's without)

Same Day (10C's without)

Specialty Services

Commercial "A" - 100% DTP

Commercial "B" - 100% DTP

Commercial "C" - 100% DTP

Commercial "D" - 100% DTP

Commercial "E" - 100% DTP

Commercial "F" - 100% DTP

Commercial "G" - 100% DTP

Commercial "H" - 100% DTP

Commercial "I" - 100% DTP

Commercial "J" - 100% DTP

Commercial "K" - 100% DTP

Commercial "L" - 100% DTP

Commercial "M" - 100% DTP

Commercial "N" - 100% DTP

Commercial "O" - 100% DTP

Commercial "P" - 100% DTP

Commercial "Q" - 100% DTP

Commercial "R" - 100% DTP

Commercial "S" - 100% DTP

Commercial "T" - 100% DTP

Commercial "U" - 100% DTP

Commercial "V" - 100% DTP

Commercial "W" - 100% DTP

Commercial "X" - 100% DTP

Commercial "Y" - 100% DTP

Commercial "Z" - 100% DTP

Chain of Custody

Sample ID: *SW2, SW3, SW4, SW5, SW6*

Collector: *SW2, SW3, SW4, SW5, SW6*

Date/Time: *12/1/11 12:45 PM, 1:30 PM, 1:40 PM, 1:40 PM, 1:40 PM*

Number of Samples: *12, 12, 12, 12, 12*

Matrix Codes: *SPARE, SAMPLE, DTPARE*

Notes: *NOT sampling, NOT soil, NOT soil*

Notes: *All overholding time - please analyze*

Notes: *5500 etc. w/soils get cleanup*

McCampbell Analytical, Inc.



1334 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 232-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1101354

ClientCode: ETS

Water/Tax Write-On EDF Excel Fax Email HardCopy ThirdParty J-Box

Report to:

Helen Mawhinney
Environmental Technical Services
1548 Jacob Avenue
San Jose, CA 95118
510-385-4308 FAX 510-622-6259

Email: HMawhinneyETS@aol.com
cc:
PO:
ProjectNo: LRT Annual 110113

Bill to:

Helen Mawhinney
Environmental Technical Services
1548 Jacob Avenue
San Jose, CA 95118
HMawhinneyETS@aol.com

Requested TAT: 5 days

Date Received: 01/14/2011

Date Printed: 01/18/2011

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1101354-001	SW2	Water	1/13/2011 12:45	<input type="checkbox"/>	B	H	F	C	H	E	E	G	A	D		
1101354-002	SW3	Water	1/13/2011 13:26	<input type="checkbox"/>	B	H	F	C	H	E	E	G	A	D		
1101354-003	SW4	Water	1/13/2011 14:01	<input type="checkbox"/>	B	H	F	C	H	E	E	G	A	D		
1101354-004	SW5	Water	1/13/2011 14:30	<input type="checkbox"/>	B	H	F	C	H	E	E	G	A	D		
1101354-005	SW6	Water	1/13/2011 15:04	<input type="checkbox"/>	B	H	F	C	H	E	E	G	A	D		

Test Legend:

1	8081PCB W
6	PH W
11	

2	ALUMINUM W
7	BC W
12	

3	COD W
8	TOC W

4	GASE260 W
9	TPH(DMO) W

5	METALSMS W
10	TIS W

The following SampleIDs: 001C, 002C, 003C, 004C, 005C contain testgroup.

Prepared by: Ana Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

Sample Receipt Checklist

Client Name: **Environmental Technical Services** Date and Time Received: **1/14/2011 6:03:19 PM**
Project Name: **LRT Annual 110113** Checklist completed and reviewed by: **Ana Venegas**
WorkOrder #: **1101354** Matrix: **Water** Carrier: **Benjamin Yslas (MAI Courier)**

Chain of Custody (COC) Information

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Sample IDs noted by Client on COC? Yes No
Date and Time of collection noted by Client on COC? Yes No
Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
Shipping container/cooler in good condition? Yes No
Samples in proper containers/bottles? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
Container/Temp Blank temperature Cooler Temp: **4.6°C** NA
Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
Sample labels checked for correct preservation? Yes No
Metal - pH acceptable upon receipt (pH < 2)? Yes No NA
Samples Received on ice? Yes No

(Ice Type: **WET ICE**)

* NOTE: If the "No" box is checked, see comments below.

Client contacted: _____ Date contacted: _____ Contacted by: _____

Comments: **pH received out of hold time, Okay to run per note on COC**



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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRT Annual 110113	Date Sampled: 01/13/11
	Client Contact: Helen Mawhinney	Date Received: 01/14/11
	Client P.O.:	Date Extracted: 01/14/11
		Date Analyzed: 01/15/11

Organochlorine Pesticides by GC-ECD (8060 Basic Target List) + PCBs*

Extraction Method: SW3510C

Analytical Method: SW8011A/8082

Web Order: 1101354

Lab ID	1101354-001B	1101354-002B	1101354-003B	1101354-004B	Reporting Limit for DF=1	
Client ID	SW2	SW3	SW4	SW5	S	W
Matrix	W	W	W	W		
DF	1	1	1	1		
Compound	Concentration				µg/kg	µg/L
Aldrin	ND	ND	ND	ND	NA	0.001
α-BHC	ND	ND	ND	ND	NA	0.01
β-BHC	ND	ND	ND	ND	NA	0.005
δ-BHC	ND	ND	ND	ND	NA	0.005
γ-BHC	ND	ND	ND	ND	NA	0.02
Chlordane (Technical)	ND	ND	ND	ND	NA	0.1
α-Chlordane	ND	ND	ND	ND	NA	0.05
γ-Chlordane	ND	ND	ND	ND	NA	0.05
p,p'-DDD	ND	ND	ND	ND	NA	0.01
p,p'-DDE	ND	ND	ND	ND	NA	0.01
p,p'-DDT	ND	ND	ND	ND	NA	0.01
Dieldrin	ND	ND	ND	ND	NA	0.01
Endosulfan I	ND	ND	ND	ND	NA	0.02
Endosulfan II	ND	ND	ND	ND	NA	0.02
Endosulfan sulfate	ND	ND	ND	ND	NA	0.05
Endrin	ND	ND	ND	ND	NA	0.01
Endrin sulfate	ND	ND	ND	ND	NA	0.05
Endrin ketone	ND	ND	ND	ND	NA	0.05
Heptachlor	ND	ND	ND	ND	NA	0.01
Heptachlor epoxide	ND	ND	ND	ND	NA	0.01
Heptachlorobenzene	ND	ND	ND	ND	NA	0.5
Heptachlorocyclohexadiene	ND	ND	ND	ND	NA	1.0
Methoxychlor	ND	ND	ND	ND	NA	0.1
Toxaphene	ND	ND	ND	ND	NA	0.5
Aroclor 1016	ND	ND	ND	ND	NA	0.5
Aroclor 1221	ND	ND	ND	ND	NA	0.5
Aroclor 1232	ND	ND	ND	ND	NA	0.5
Aroclor 1242	ND	ND	ND	ND	NA	0.5
Aroclor 1248	ND	ND	ND	ND	NA	0.5
Aroclor 1254	ND	ND	ND	ND	NA	0.5
Aroclor 1260	ND	ND	ND	ND	NA	0.5
PCBs, total	ND	ND	ND	ND	NA	0.5

Surrogate Recoveries (%)

%SS	111	107	105	107
Comments				

* water samples in µg/L, soil/sediment/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/chemical-equivalent liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor.

surrogate diluted out of range or surrogate coelutes with another peak.

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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRT Annual 110113	Date Sampled: 01/13/11	
		Date Received: 01/14/11	
	Client Contact: Helen Mawhinney	Date Extracted: 01/14/11	
	Client P.O.:	Date Analyzed: 01/15/11	
Organochlorine Pesticides by GC-ECD (8080 Basic Target List) + PCBs*			
Extraction Method: SW3510C		Analytical Method: SW8081A/8082	
		Web Order: 1101354	
Lab ID	1101354-005B		
Client ID	SW6		
Matrix	W		
DF	1		
		Reporting Limit for DF=1	
		S	W
Compound	Concentration		µg/g
			µg/L
Aldrin	ND		NA
p-BHC	ND		NA
h-BHC	ND		NA
a-BHC	ND		NA
γ-BHC	ND		NA
Chlordane (Technical)	ND		NA
α-Chlordane	ND		NA
β-Chlordane	ND		NA
p,p'-DDD	ND		NA
p,p'-DDE	ND		NA
p,p'-DDT	ND		NA
Dieldrin	ND		NA
Endosulfan I	ND		NA
Endosulfan II	ND		NA
Endosulfan sulfate	ND		NA
Endrin	ND		NA
Endrin aldehyde	ND		NA
Endrin ketone	ND		NA
Heptachlor	ND		NA
Heptachlor epoxide	ND		NA
Heptachlorobenzene	ND		NA
Heptachlorocyclopentadiene	ND		NA
Methoxychlor	ND		NA
Toxaphene	ND		NA
Aroclor 1016	ND		NA
Aroclor 1221	ND		NA
Aroclor 1232	ND		NA
Aroclor 1242	ND		NA
Aroclor 1248	ND		NA
Aroclor 1254	ND		NA
Aroclor 1260	ND		NA
PCBs total	ND		NA
Surrogate Recoveries (%)			
%SS	107		
Comments			
* water samples in µg/L, soil/sediment/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.			
ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor.			
# surrogate diluted out of range or surrogate coelutes with another peak.			

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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRT Annual 110113	Date Sampled: 01/13/11
	Client Contact: Helen Marwhimney	Date Received: 01/14/11
	Client P.O.:	Date Extracted: 01/14/11
		Date Analyzed: 01/18/11

Trace Metals by ICP* <small>Enrichment method: E200.7 Analytical method: E200.7 Work Order: 1101134</small>								
Lab ID	Client ID	Matrix	Extraction Type	Aluminum	Iron	DF	%SS	Comments
001H	SW2	W	TOTAL	3100	7000	1	87	
002H	SW3	W	TOTAL	180	880	1	86	
003H	SW4	W	TOTAL	160	500	1	81	
004H	SW3	W	TOTAL	110	270	1	87	
005H	SW5	W	TOTAL	61	120	1	85	

Reporting Limit for DF =1; ND means not detected at or above this reporting limit	W	TOTAL	50	50	µg/L
	S	TOTAL	NA	NA	NA

*water samples are reported in µg/L, product/oil/water-aqueous liquid samples and all TCLP / STLC / DSTLC / SPLP extracts are reported in mg/L, soil/sediment/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.
means surrogate recovery outside of acceptance range due to matrix interference; & means low or no surrogate due to matrix interference; ND means not detected above the reporting limit/assumed detection limit; N/A means not applicable to this sample or instrument.
TOTAL = Hot acid digestion of a representative sample aliquot.
TKM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.
DHSS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.
%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118		Client Project ID: LRT Annual 110113		Date Sampled: 01/13/11 Date Received: 01/14/11 Date Extracted: 01/21/11 Date Analyzed: 01/21/11	
		Client Contact: Helen Mawhinney Client P.O.:			
Chemical Oxygen Demand (COD)*					
Analytical Method: EPA8210D				Work Order: 1101354	
Lab ID	Client ID	Matrix	COD	DF	Comments
1101354-001F	SW2	W	35	1	
1101354-002F	SW3	W	27	1	
1101354-003F	SW4	W	ND	1	
1101354-004F	SW5	W	ND	1	
1101354-005F	SW6	W	ND	1	
Reporting Limit for DF = 1; ND means not detected at or above the reporting limit		W	10 mg/L		
		S	NA		
<small>*water/product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sediment/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.</small>					

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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118		Client Project ID: LRT Annual 110113 Client Contact: Helen Mawhinney Client P.O.:	Date Sampled: 01/13/11 Date Received: 01/14/11 Date Extracted: 01/18/11 Date Analyzed: 01/18/11			
TPH(g) by Purge & Trap and GC/MS*						
Extraction method: SW3030B		Analytical method: SW8260B				
		Work Order: 1101354				
Lab ID	Client ID	Matrix	TPH(g)	DF	%SS	Comments
001C	SW2	W	ND	1	104	
002C	SW3	W	ND	1	103	
003C	SW4	W	ND	1	104	
004C	SW3	W	ND	1	103	
005C	SW6	W	ND	1	104	
Reporting Limit for DF =1; ND means not detected at or above the reporting limit		W	50	µg/L		
		S	NA	NA		
* water and vapor samples are reported in µg/L, soil/sediment/solid samples in mg/kg, petroleum/non-aqueous liquid samples and all TCLP & SFLP extracts are reported in mg/L, wipe samples in µg/wipe.						
ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.						
† surrogate diluted out of range or co-elutes with another peak; ‡ low surrogate due to matrix interference.						
%SS = Percent Recovery of Surrogate Standard DF = Dilution Factor						

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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118		Client Project ID: LRT Annual 110113		Date Sampled: 01/13/11		
		Client Contact: Helen McWhinney		Date Received: 01/14/11		
		Client P.O.:		Date Extracted: 01/18/11		
				Date Analyzed: 01/18/11		
MTBE and BTEX by GCMS* Extraction Method: SW3430B Analytical Method: SW3260B Work Order: 1101354						
Lab ID	1101354-001C	1101354-002C	1101354-003C	1101354-004C	Reporting Limit for DF = 1	
Client ID	SW2	SW3	SW4	SW5		
Matrix	W	W	W	W		
DF	1	1	1	1		
Compound	Concentration				ug/kg	ug/L
Benzene	ND	ND	ND	ND	NA	0.5
Ethylbenzene	ND	ND	ND	ND	NA	0.5
Methyl-t-butyl ether (MTBE)	ND	ND	ND	ND	NA	0.5
Toluene	ND	ND	ND	ND	NA	0.5
Xylenes	ND	ND	ND	ND	NA	0.5
Surrogate Recoveries (%)						
%SS1:	96	96	93	98		
%SS2:	98	98	98	98		
Comments:						
* water and vapor samples are reported in ug/L, soil/solid/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in ug/wipe. ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis. # surrogate diluted out of range or coelutes with another peak; ö low surrogate due to matrix interference. %SS = Percent Recovery of Surrogate Standard DF = Dilution Factor						

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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRT Annual 110113	Date Sampled: 01/13/11		
	Client Contact: Helen Mawhinney	Date Received: 01/14/11		
	Client P.O.:	Date Extracted: 01/18/11		
		Date Analyzed: 01/18/11		
MTBE and BTEX by GCMS*				
Extraction Method: SW5030B		Analytical Method: SW8260B		
		Work Order: 110134		
Lab ID	1101354-005C			
Client ID	SW6		Reporting Limit for DF =1	
Matrix	W			
DF	1			
			S	W
Compound	Concentration		ug/kg	ug/L
Benzene	ND		NA	0.5
Ethylbenzene	ND		NA	0.5
Methyl-t-butyl ether (MTBE)	ND		NA	0.5
Toluene	ND		NA	0.5
Xylenes	ND		NA	0.5
Surrogate Recoveries (%)				
%SS1:	96			
%SS2:	98			
Comments				
* water and vapor samples are reported in ug/L, soil/slabs/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in ug/wipe. ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis. # surrogate diluted out of range or coelutes with another peak; ö low surrogate due to matrix interference. %SS = Percent Recovery of Surrogate Standard DF = Dilution Factor				

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 Angela Rydahns, Lab Manager

Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRT Annual 110113	Date Sampled: 01/13/11
		Date Received: 01/14/11
	Client Contact: Helen Mawhinney	Date Extracted: 01/14/11
	Client P.O.:	Date Analyzed: 01/18/11

Metals*										
Extraction method: E200.8		Analytical methods: E200.8						Work Order: 1101354		
Lab ID	Client ID	Matrix	Extraction Type	Copper	Lead	Vanadium	Zinc	DF	%SS	Comments
001H	SW2	W	TOTAL	38	46	18	380	1	82	
002H	SW3	W	TOTAL	6.1	6.2	5.5	61	1	87	
003H	SW4	W	TOTAL	7.4	3.4	4.0	33	1	78	
004H	SW5	W	TOTAL	12	5.4	2.8	35	1	84	
005H	SW6	W	TOTAL	6.4	3.8	2.9	19	1	83	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	0.5	0.5	0.5	3.0	µg/L
	S	TOTAL	NA	NA	NA	NA	NA

*water samples are reported in µg/L, product/effluent-aqueous liquid samples and all TCLP / WET / DI WET / SPLP extracts are reported in mg/L, soil/sediment/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot
 TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.
 DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample
 %SS = Percent Recovery of Surrogate Standard
 DF = Dilution Factor

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Environmental Technical Services 1543 Jacob Avenue San Jose, CA 95118	Client Project ID: LRT Annual 110113	Date Sampled: 01/13/11
		Date Received: 01/14/11
	Client Contact: Helen Msrwhinney	Date Extracted: 01/14/11
	Client P.O.:	Date Analyzed: 01/14/11

pH

Analytical Method: 8245001+B Work Order: 1101354

Lab ID	Client ID	Matrix	pH	DF	Comments
1101354-001E	SW2	W	7.51 @ 19.8°C	1	
1101354-002E	SW3	W	7.56 @ 19.8°C	1	
1101354-003E	SW4	W	7.40 @ 18.5°C	1	
1101354-004E	SW5	W	7.23 @ 20.2°C	1	
1101354-005E	SW6	W	7.62 @ 19.2°C	1	

Method Accuracy and Reporting Units	W	±0.05, pH units @ °C
	S	NA

* According to the formal method, this is "field test" with a 15 minute Hold Time. However, as this is unrealistically short for commercial environmental analysis, MAI has designated a 24 hour hold time for aqueous samples

DF = Dilution Factor

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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRT Annual 110113		Date Sampled: 01/13/11		
			Date Received: 01/14/11		
	Client Contact: Helen Mawhinney		Date Extracted: 01/19/11		
	Client P.O.:		Date Analyzed: 01/19/11		
Specific Conductivity*					
Analytical Method: 8242510B		Work Order: 1101354			
Lab ID	Client ID	Matrix	Specific Conductivity	DF	Comments
1101354-001E	SW2	W	239 @ 25.0°C	1	
1101354-002E	SW3	W	2440 @ 25.0°C	1	
1101354-003E	SW4	W	224 @ 25.0°C	1	
1101354-004E	SW3	W	75.7 @ 25.0°C	1	
1101354-005E	SW6	W	77.1 @ 25.0°C	1	
Reporting Limit for DF = 1; ND means not detected at or above the reporting limit		W S	10 µmhos/cm @ 25°C NA		
DF = Dilution Factor					

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Angela Rydelius, Lab Manager

Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRT Annual 110113	Date Sampled: 01/13/11
		Date Received: 01/14/11
	Client Contact: Helen Mawhinney	Date Extracted: 01/19/11
	Client P.O.:	Date Analyzed: 01/19/11

Total Organic Carbon (TOC) reported as NPOC*

Analytical Method: **E415.3** Work Order: **1101354**

Lab ID	Client ID	Matrix	TOC	DF	Comments
1101354-001G	SW2	W	5.0	1	
1101354-002G	SW3	W	3.9	1	
1101354-003G	SW4	W	0.93	1	
1101354-004G	SW5	W	2.3	1	
1101354-005G	SW6	W	1.2	1	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	0.3 mg/L
	S	NA

* water samples are reported in mg/L. Settleable solids and floatable matter are excluded from analysis per E415.3. TOC is reported as NPOC.

TDC = Total Organic Carbon; NPOC = Non-Purgable Organic Carbon; DOC = Dissolved Organic Carbon;
 POC = Purgable Organic Carbon; IC = Inorganic Carbon; TC = Total Carbon.

DF = Dilution Factor

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 Angela Rydelins, Lab Manager



McC Campbell Analytical, Inc.

"When Quality Counts"

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Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 925-252-0262 Fax: 925-252-0269

Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRT Annual 110113	Date Sampled: 01/13/11
		Date Received: 01/14/11
	Client Contact: Helen Mawhinney	Date Extracted: 01/19/11
	Client P.O.:	Date Analyzed: 01/19/11

Total Organic Carbon (TOC) reported as NPOC*

Analytical Method: E413.3

Work Order: 1101354

Lab ID	Client ID	Matrix	TOC	DF	Comments
1101354-001G	SW2	W	5.0	1	
1101354-002G	SW3	W	3.9	1	
1101354-003G	SW4	W	0.93	1	
1101354-004G	SW5	W	2.3	1	
1101354-005G	SW6	W	1.2	1	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	0.3 mg/L
	S	NA

* water samples are reported in mg/L. Settleable solids and floatable matter are excluded from analysis per E413.3. TOC is reported as NPOC.

TOC = Total Organic Carbon; NPOC = Non-Purgeable Organic Carbon; DOC = Dissolved Organic Carbon;
 POC = Purgeable Organic Carbon; IC = Inorganic Carbon; TC = Total Carbon.

DF = Dilution Factor

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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRT Annual 110113	Date Sampled: 01/13/11
		Date Received: 01/14/11
	Client Contact: Helen Mawhinney	Date Extracted: 01/14/11
	Client P.O.:	Date Analyzed: 01/15/11

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW310C Analytical methods: SW8015B Work Order: 1101134

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C22)	TPH-Motor Oil (C10-C34)	DF	% SS	Comments
1101334-001A	SW2	W	180	480	1	96	a7,e2
1101334-002A	SW3	W	37	ND	1	93	e2
1101334-003A	SW4	W	ND	ND	1	96	
1101334-004A	SW5	W	ND	ND	1	95	
1101334-005A	SW6	W	ND	ND	1	103	

Reporting Limit for DF=1; ND means not detected at or above the reporting limit	W	50	350	µg/L
	S	NA	NA	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLCL / SPLP / TCLP extracts are reported in µg/L.

† clustered chromatogram resulting in co-eluted surrogate and sample peaks, or, surrogate peak is on elevated baseline, or, surrogate has been diminished by dilution of original extract.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

†The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

e2) diesel range compounds are significant; no recognizable pattern
 e7) oil range compounds are significant

DHS ELAP Certification 1644 Angela Rydelins, Lab Manager

McC Campbell Analytical, Inc. <small>"When Quality Counts"</small>		1534 Willow Pass Road, Pinole, CA 94565-1701 Web: www.mcccampbell.com Email: info@mcccampbell.com Telephone: 877-253-9262 Fax: 925-252-9269			
Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRT Annual 110113		Date Sampled: 01/13/11		
	Client Contact: Helen Mawhinney		Date Received: 01/14/11		
	Client P.O.:		Date Extracted: 01/18/11		
			Date Analyzed: 01/18/11		
Total Suspended Solids*					
Analytical Method: 8242340D		Work Order: 1101354			
Lab ID	Client ID	Matrix	Total Suspended Solids	DF	Comments
1101334-001D	SW2	W	97.0	10	
1101334-002D	SW3	W	35.5	5	
1101334-003D	SW4	W	5.40	1	
1101334-004D	SW5	W	3.80	1	
1101334-005D	SW6	W	ND	1	
Reporting Limit for DF = 1; ND means not detected at or above the reporting limit		W	1.0 mg/L		
		S	NA		
* water samples reported in mg/L.					
DF = Dilution Factor					

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Angela Rydelina, Lab Manager



McC Campbell Analytical, Inc.

"When Quality Counts"

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 55615 WorkOrder: 1101354

Analyte	Extraction SW8260B								Spiked Sample ID: 1101306-013C			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Benzene	ND	10	90.2	83	5.93	103	102	0.949	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	112	111	1.18	112	113	0.687	70 - 130	30	70 - 130	30
Toluene	ND	10	93.7	91.6	4.36	109	109	0	70 - 130	30	70 - 130	30
%SS1:	94	23	78	79	1.38	78	79	1.68	70 - 130	30	70 - 130	30
%SS2:	93	23	92	99	1.04	97	98	0.568	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method EL with the following exceptions:
NONE

BATCH 55615 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101354-001C	01/13/11 12:45 PM	01/18/11	01/18/11 3:14 PM	1101354-001C	01/13/11 12:45 PM	01/18/11	01/18/11 3:14 PM
1101354-002C	01/13/11 1:26 PM	01/18/11	01/18/11 4:02 PM	1101354-002C	01/13/11 1:26 PM	01/18/11	01/18/11 4:02 PM
1101354-003C	01/13/11 2:01 PM	01/18/11	01/18/11 4:44 PM	1101354-003C	01/13/11 2:01 PM	01/18/11	01/18/11 4:44 PM
1101354-004C	01/13/11 2:30 PM	01/18/11	01/18/11 5:27 PM	1101354-004C	01/13/11 2:30 PM	01/18/11	01/18/11 5:27 PM
1101354-005C	01/13/11 3:04 PM	01/18/11	01/18/11 10:28 PM	1101354-005C	01/13/11 3:04 PM	01/18/11	01/18/11 10:28 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / (MS + MSD) * 2.

MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogeneous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery. The LCS and LCSD are spikes into a clean, known, similar matrix and they and the surrogate standards reflect the overall validity of their extraction batch. Our control limits are 70-130% recovery and a 30% RPD for the LCS-LCSD and for the Surrogate Standards.

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[Signature]
QA/QC Officer

QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 55616 WorkOrder: 1101354

EPA Method E200.8	Extraction E200.8								Spiked Sample ID: 1101167-006A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Copper	320	10	NR	NR	NR	99.7	103	2.73	70 - 130	20	85 - 115	20
Lead	3.0	10	100	98.7	1.47	96	99.7	3.80	70 - 130	20	85 - 115	20
Vanadium	2.6	10	96	91.3	3.76	100	102	1.19	70 - 130	20	85 - 115	20
Zinc	11	100	98.3	93.5	4.69	103	108	2.73	70 - 130	20	85 - 115	20
MSD	96	730	93	96	1.34	97	93	3.89	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL, with the following exceptions:
 NONE

BATCH 55616 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101354-001H	01/13/11 12:45 PM	01/14/11	01/18/11 10:41 PM	1101354-002H	01/13/11 1:26 PM	01/14/11	01/18/11 10:47 PM
1101354-003H	01/13/11 2:01 PM	01/14/11	01/18/11 10:53 PM	1101354-004H	01/13/11 2:30 PM	01/14/11	01/18/11 10:59 PM
1101354-005H	01/13/11 3:04 PM	01/14/11	01/18/11 11:03 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogeneous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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 QA/QC Officer

QC SUMMARY REPORT FOR SW8031A/8082

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 55631 WorkOrder: 1101354

Analyte	Extraction SW3510C								Spiked Sample ID: N/A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aldrin	N/A	0.50	N/A	N/A	N/A	124	124	0	N/A	N/A	70 - 130	30
p-BHC	N/A	0.50	N/A	N/A	N/A	89.3	89.7	0.491	N/A	N/A	70 - 130	30
p,p'-DDT	N/A	1.25	N/A	N/A	N/A	90	90.3	0.604	N/A	N/A	70 - 130	30
Dieldrin	N/A	1.25	N/A	N/A	N/A	108	108	0	N/A	N/A	70 - 130	30
Endrin	N/A	1.25	N/A	N/A	N/A	99.9	100	0.348	N/A	N/A	70 - 130	30
Heptachlor	N/A	0.50	N/A	N/A	N/A	84.8	85.4	0.726	N/A	N/A	70 - 130	30
%SS	N/A	1.25	N/A	N/A	N/A	107	106	0.775	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
 NONE

BATCH 55631 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101354-001B	01/13/11 12:45 PM	01/14/11	01/15/11 4:34 PM	1101354-002B	01/13/11 1:26 PM	01/14/11	01/15/11 8:30 PM
1101354-003B	01/13/11 2:01 PM	01/14/11	01/15/11 7:23 PM	1101354-004B	01/13/11 2:36 PM	01/14/11	01/15/11 5:30 PM
1101354-005B	01/13/11 3:04 PM	01/14/11	01/15/11 6:27 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked})$; $\text{RPD} = 100 * ((\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2))$.

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogeneous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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 QA/QC Officer

QC SUMMARY REPORT FOR E200.7

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 55586 WorkOrder: 1101354

EPA Method E200.7	Extraction E200.7								Spiked Sample ID: 1101157-004A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aluminum	ND	1000	95.4	95.6	0.230	91.8	92.9	1.19	70 - 130	20	85 - 115	20
Iron	ND	1000	90.6	91.9	1.47	93.2	93.3	0.396	70 - 130	20	85 - 115	20
%SS:	93	750	80	80	0	89	91	3.50	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
 NONE

BATCH 55586 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101354-001H	01/13/11 12:43 PM	01/14/11	01/18/11 2:08 PM	1101354-002H	01/13/11 1:26 PM	01/14/11	01/18/11 2:14 PM
1101354-003H	01/13/11 2:01 PM	01/14/11	01/18/11 2:20 PM	1101354-004H	01/13/11 2:30 PM	01/14/11	01/18/11 2:26 PM
1101354-005H	01/13/11 3:04 PM	01/14/11	01/18/11 2:31 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked})$; $\text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2)$.
 * MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogeneous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 N/A = not applicable to this method.
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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 QA/QC Officer

QC SUMMARY REPORT FOR E410.4

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 55591 WorkOrder: 1101354

EPA Method 8MS220D	Extraction 8MS220D								Spiked Sample ID: 1101311-002B			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCS/D	LCS-LCS/D	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCS/D	RPD
ODD	ND	400	104	103	1.19	103	101	2.44	80 - 120	20	90 - 110	20
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

BATCH 55591 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101354-001F	01/13/11 12:45 PM	01/21/11	01/21/11 2:16 PM	1101354-002F	01/13/11 1:26 PM	01/21/11	01/21/11 2:22 PM
1101354-003F	01/13/11 2:01 PM	01/21/11	01/21/11 2:28 PM	1101354-004F	01/13/11 2:30 PM	01/21/11	01/21/11 2:34 PM
1101354-005F	01/13/11 3:04 PM	01/21/11	01/21/11 2:40 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCS/D = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation
 $\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked})$; $\text{RPD} = 100 * (|\text{MS} - \text{MSD}|) / ((\text{MS} + \text{MSD}) / 2)$.
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogeneous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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 QA/QC Officer

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 55615 WorkOrder: 1101354

EPA Method SW8260B	Extraction SW5030B								Spiked Sample ID: 1101306-013C			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSB	LCS-LCSB	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSB	RPD
tert-Amyl methyl ether (TAME)	ND	10	86.2	86.3	0.157	91.3	92	0.799	70 - 130	30	70 - 130	30
Benzene	ND	10	90.2	85	5.93	103	102	0.949	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	94.8	96.4	1.72	89.2	92.1	3.21	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	94.9	91.3	3.91	109	107	1.28	70 - 130	30	70 - 130	30
1,2-Dibromothane (EDB)	ND	10	92.6	94.6	2.13	98.7	97.7	1.01	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCE)	ND	10	98.4	97	1.39	108	106	1.74	70 - 130	30	70 - 130	30
1,1-Dichloroethane	ND	10	85.6	78.2	9.06	100	97.7	2.73	70 - 130	30	70 - 130	30
Dibutylpropyl ether (DBPE)	ND	10	103	100	2.32	112	112	0	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	91.3	89.8	1.68	98.9	98.9	0	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	112	111	1.18	112	113	0.687	70 - 130	30	70 - 130	30
Toluene	ND	10	95.7	91.6	4.36	109	109	0	70 - 130	30	70 - 130	30
Trichloroethane	ND	10	96.1	89.9	6.65	115	113	1.69	70 - 130	30	70 - 130	30
%SS1:	94	25	78	79	1.38	78	79	1.68	70 - 130	30	70 - 130	30
%SS2:	93	25	98	99	1.04	97	98	0.568	70 - 130	30	70 - 130	30
%SS3:	104	2.5	100	103	2.68	96	98	1.29	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 55615 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101354-001C	01/13/11 12:45 PM	01/18/11	01/18/11 3:14 PM	1101354-002C	01/13/11 1:26 PM	01/18/11	01/18/11 4:02 PM
1101354-003C	01/13/11 2:01 PM	01/18/11	01/18/11 4:44 PM	1101354-004C	01/13/11 2:30 PM	01/18/11	01/18/11 3:27 PM
1101354-005C	01/13/11 3:04 PM	01/18/11	01/18/11 10:28 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCB = Laboratory Control Sample; LCSB = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) * 2.$

MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogeneous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery. The LCS and LCSB are spikes into a clean, known, similar matrix and they and the surrogate standards reflect the overall validity of their extraction batch. Our control limits are 70-130% recovery and a 30% RPD for the LCS/LCSB and for the Surrogate Standards.

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 QA/QC Officer



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QC SUMMARY REPORT FOR SW8160B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 55615

WorkOrder: 1101354

Analyte	EPA Method SW8260B Extraction SW5030B Spiked Sample ID: 1101306-013C									Acceptance Criteria (%)			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	MS / MSD	RPD	LCS/LCSD	RPD	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD					
Benzene	ND	10	90.2	85	5.93	103	102	0.949	70 - 130	30	70 - 130	30	
Methyl + butyl ether (MTBE)	ND	10	112	111	1.18	112	113	0.687	70 - 130	30	70 - 130	30	
Toluene	ND	10	93.7	91.6	4.38	109	109	0	70 - 130	30	70 - 130	30	
%SSI:	94	25	78	79	1.38	78	79	1.68	70 - 130	30	70 - 130	30	
%SSD:	93	25	98	99	1.04	97	98	0.568	70 - 130	30	70 - 130	30	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 55615 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
110134-001C	01/13/11 12:45 PM	01/18/11	01/18/11 3:14 PM	110134-002C	01/13/11 1:26 PM	01/18/11	01/18/11 4:02 PM
110134-003C	01/13/11 2:01 PM	01/18/11	01/18/11 4:44 PM	110134-004C	01/13/11 2:30 PM	01/18/11	01/18/11 5:27 PM
110134-005C	01/13/11 3:04 PM	01/18/11	01/18/11 10:28 PM				

MS = Matrix Spike, MSD = Matrix Spike Duplicate, LCS = Laboratory Control Sample, LCSD = Laboratory Control Sample Duplicate, RPD = Relative Percent Deviation

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2)

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogeneous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

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QA/QC Officer

QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: pH Matrix: W WorkOrder: 1101354

Method Name: SM4500H+D		Units: μ , pH units @ °C			BatchID: 55595	
Lab ID	Sample	DF	Dup / Ser. Dil	DF	Precision	Acceptance Criteria
1101354-001E	7.51 @ 19.8°C	1	7.50 @ 19.8°C	1	0.01	0.03
1101354-002E	7.36 @ 19.8°C	1	7.37 @ 19.9°C	1	0.01	0.03
1101354-003E	7.40 @ 18.5°C	1	7.39 @ 18.8°C	1	0.01	0.03
1101354-004E	7.23 @ 20.2°C	1	7.24 @ 20.2°C	1	0.01	0.03
1101354-005E	7.62 @ 19.2°C	1	7.59 @ 19.6°C	1	0.03	0.05

BATCH 55595 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101354-001E	01/13/11 12:45 PM	01/14/11	01/14/11 8:00 PM	1101354-002E	01/13/11 1:26 PM	01/14/11	01/14/11 8:12 PM
1101354-003E	01/13/11 2:01 PM	01/14/11	01/14/11 8:24 PM	1101354-004E	01/13/11 2:30 PM	01/14/11	01/14/11 8:06 PM
1101354-005E	01/13/11 3:04 PM	01/14/11	01/14/11 8:18 PM				

Test Method: Total Suspended Solids Matrix: W WorkOrder: 1101354

Method Name: SM2540D		Units: mg/L			BatchID: 55559	
Lab ID	Sample	DF	Dup / Ser. Dil	DF	%RPD	Acceptance Criteria (%)
1101354-001D	97.0	10	94.0	10	3.14	<15
1101354-002D	25.5	5	25.0	5	1.98	<15
1101354-003D	5.40	1	5.20	2	3.77	<15
1101354-004D	3.80	1	3.80	2	0	<15
1101354-005D	ND	1	ND<2.00	2	N/A	<15

BATCH 55559 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101354-001D	01/13/11 12:45 PM	01/18/11	01/18/11 6:03 PM	1101354-002D	01/13/11 1:26 PM	01/18/11	01/18/11 6:13 PM
1101354-003D	01/13/11 2:01 PM	01/18/11	01/18/11 6:23 PM	1101354-004D	01/13/11 2:30 PM	01/18/11	01/18/11 6:33 PM
1101354-005D	01/13/11 3:04 PM	01/18/11	01/18/11 6:43 PM				

Dup = Duplicate; Ser. Dil = Serial Dilution; ME = Matrix Spike; RIJ = Relative Difference; RPD = Relative Percent Deviation.
Precision = Absolute Value (Sample - Duplicate)
RPD = 100 * (Sample - Duplicate) / ((Sample + Duplicate) / 2)
%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.

DHS ELAP Certification 1644

 QA/QC Officer

QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: Specific Conductivity Matrix: W WorkOrder: 1101354

Method Name: SM2510B		Units: $\mu\text{mhos/cm @ 25}^\circ\text{C}$			BatchID: 55581	
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
1101354-001E	239 @ 25.0°C	1	240 @ 25.0°C	1	0.376	<2
1101354-002E	2440 @ 25.0°C	1	2440 @ 25.0°C	1	0.164	<2
1101354-003E	224 @ 25.0°C	1	224 @ 25.0°C	1	0.223	<2

BATCH 55581 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101354-001E	01/13/11 12:45 PM	01/19/11	01/19/11 5:00 PM	1101354-002E	01/13/11 1:26 PM	01/19/11	01/19/11 5:10 PM
1101354-003E	01/13/11 2:01 PM	01/19/11	01/19/11 5:20 PM				

Test Method: Specific Conductivity Matrix: W WorkOrder: 1101354

Method Name: SM2510B		Units: $\mu\text{mhos/cm @ 25}^\circ\text{C}$			BatchID: 55652	
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
1101354-004E	75.7 @ 25.0°C	1	76.1 @ 25.0°C	1	0.333	<2
1101354-005E	77.1 @ 25.0°C	1	77.3 @ 25.0°C	1	0.233	<2

BATCH 55652 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101354-004E	01/13/11 2:30 PM	01/19/11	01/19/11 5:30 PM	1101354-005E	01/13/11 3:04 PM	01/19/11	01/19/11 5:40 PM

Dup = Duplicate; BD = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

$RPD = 100 * (\text{Sample} - \text{Duplicate}) / ((\text{Sample} + \text{Duplicate}) / 2)$

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MW considers %RPD based upon more significant figures to be more accurate.

DHS ELAP Certification 1644

 QA/QC Officer

QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: Specific Conductivity Matrix: W WorkOrder: 1101354

Method Name: SM2510B		Units: $\mu\text{mhos/cm @ 25}^\circ\text{C}$			BatchID: 55581	
Lab ID	Sample	DF	Dup / Ser. Dil	DF	% RPD	Acceptance Criteria (%)
1101354-001E	239 @ 25.0°C	1	240 @ 25.0°C	1	0.376	<2
1101354-002E	2440 @ 25.0°C	1	2440 @ 25.0°C	1	0.164	<2
1101354-003E	224 @ 25.0°C	1	224 @ 25.0°C	1	0.223	<2

BATCH 55581 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101354-001E	01/13/11 12:45 PM	01/19/11	01/19/11 5:00 PM	1101354-002E	01/13/11 1:26 PM	01/19/11	01/19/11 5:10 PM
1101354-003E	01/13/11 2:01 PM	01/19/11	01/19/11 5:20 PM				

Test Method: Specific Conductivity Matrix: W WorkOrder: 1101354

Method Name: SM2510B		Units: $\mu\text{mhos/cm @ 25}^\circ\text{C}$			BatchID: 55652	
Lab ID	Sample	DF	Dup / Ser. Dil	DF	% RPD	Acceptance Criteria (%)
1101354-004E	73.7 @ 25.0°C	1	76.1 @ 25.0°C	1	0.533	<2
1101354-005E	77.1 @ 25.0°C	1	77.3 @ 25.0°C	1	0.233	<2

BATCH 55652 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101354-004E	01/13/11 2:30 PM	01/19/11	01/19/11 5:30 PM	1101354-005E	01/13/11 3:04 PM	01/19/11	01/19/11 5:40 PM

Dup = Duplicate; BD = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

$RPD = 100 * (\text{Sample} - \text{Duplicate}) / ((\text{Sample} + \text{Duplicate}) / 2)$

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAM considers %RPD based upon more significant figures to be more accurate.

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 QA/QC Officer



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QC SUMMARY REPORT FOR E415.3

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 1101354

EPA Method E415.3		Extraction E415.3					BatchID: 55633			Spiked Sample ID: 1101391-001E			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	mg/L	% Rec.	% Rec.	% RPD	MS/MSD	RPD	LCS/LCSD	RPD
TOC	81	30	108	106	0.0747	50	102	104	1.75	70 - 130	20	80 - 120	20

All target compounds in the Method Blank of this extraction batch were ND less than the method EL with the following exceptions:
NONE

BATCH 55633 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101334-001G	01/13/11 12:45 PM	01/19/11	01/19/11 2:18 PM	1101334-002G	01/13/11 1:26 PM	01/19/11	01/19/11 2:31 PM
1101334-003G	01/13/11 2:01 PM	01/19/11	01/19/11 2:43 PM	1101334-004G	01/13/11 2:30 PM	01/19/11	01/19/11 2:57 PM
1101334-005G	01/13/11 3:04 PM	01/19/11	01/19/11 3:10 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked})$; $\text{RPD} = 100 * (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) / 2$.
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogeneous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 N/A = not applicable to this method.
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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 QA/QC Officer

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 55619 WorkOrder: 1101354

EPA Method SW8015B	Extraction SW8510C								Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCS-D	LCS-LCS-D	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCS-D	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	127	127	0	N/A	N/A	70 - 130	30
%SS:	N/A	625	N/A	N/A	N/A	89	90	0.122	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
 NDNE

BATCH 55619 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101354-001A	01/13/11 12:45 PM	01/14/11	01/15/11 7:20 AM	1101354-002A	01/13/11 1:26 PM	01/14/11	01/15/11 8:32 AM
1101354-003A	01/13/11 2:01 PM	01/14/11	01/15/11 1:22 PM	1101354-004A	01/13/11 2:30 PM	01/14/11	01/15/11 12:09 PM
1101354-005A	01/13/11 3:04 PM	01/14/11	01/15/11 12:09 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCS-D = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked})$; $\text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2)$
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogeneous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DEES ELAP Certification 1644

 QA/QC Officer

Laboratory Analytical Report

**Composite Sample
SW-1 Through SW-7
1/27/2011**

 McC Campbell Analytical, Inc. "When Quality Counts"		1334 Willow Pass Road, Pittsburg, CA 94565-1701 Web www.mcccampbell.com E-mail main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269	
Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: Discharge	Date Sampled: 01/27/11	
		Date Received: 01/28/11	
	Client Contact: Helen Mawhinney	Date Reported: 02/04/11	
	Client P.O.: #TL 20480	Date Completed: 02/03/11	

WorkOrder: 1101683

February 04, 2011

Dear Helen:

Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: Discharge,
- 2) A QC report for the above sample,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McC Campbell Analytical Laboratories for your analytical needs.

Best regards,



Angela Rydelius
 Laboratory Manager
 McC Campbell Analytical, Inc.

LEVIN RICHMOND TERMINAL
402 WRIGHT AVENUE
RICHMOND, CA

MCCAMPBELL ANALYTICAL LABS, INC.		CHAIN OF CUSTODY/ANALYSES REQUESTED	
1101683		CITY OF RICHMOND DISCHARGE SW1 - SW7	
Attention to: Helen Mawhinney Company Name: Environmental Technical Services 1548 Jacob Avenue San Jose, California 95118		PO No. Project No./Name DISCHARGE	<i>All As Quickly as BOD can be analyzed</i> TURNAROUND TIME: RESULTS MONDAY MORNING
LAB ORDER NO. _____		SAMPLER: <i>Helen Mawhinney</i>	

CITY OF RICHMOND STORMWATER SEWER DISCHARGE SAMPLES

CLIENT ID	DATE	TIME	LAB NO'S	TSS	SPEC COND	BTX	O&G	BOD	TTL METALS	pH
									CU PB ZI ZN (ppm)	
EPA Method				E160.2	E120.1	5030/8021	1664 w/o silica	5210	E200.7	
RPL***				<300 mg/L	1.0 umhos/c	<1.0 mg/L	<100 mg/L	<0.6 mg/L	cu=0.6, pb=0.3, zinc=1.0, ni=0.5	
SW1 - SW7	1-27-11	1524		x	x		x	x	x	x
SW-1 through SW7	1-27-11	1524				x				

Note: BOD might have been FedExed w/own COC due to hold time; SW1-SW7 were composited as one sample in the field; SW1, SW3, SW4, SW5, SW6, and SW7 were collected in discrete 40ml VOAs to be composited by the laboratory as one sample for analyses. Must have PO No.

Relinquished By: <i>Helen Mawhinney</i> print signature 1-27-11	Received By: <i>EIS Fridge</i> print signature 1-27-11
Relinquished By: <i>Rob Pringle</i> print signature 1-28-11	Received By: <i>Rob Pringle</i> print signature 1-28-11

38
EIS
20110128
1515

ICEP	GOOD CONDITION	APPROPRIATE
HEAD SPACE ABSENT	CONTAINERS	PRESERVED IN LAB
DICHLORINATED BY LAB		
PRESERVATION	VOAS	O&G
	METALS	OTHER

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1101683

ClientCode: ETS

WaterTrax Write-On EDF Excel Fax Email HardCopy ThirdParty J-flag

Report to:

Helen Mawhinney
Environmental Technical Services
1548 Jacob Avenue
San Jose, CA 95118
510-385-4308 FAX 510-522-6259

Email: HMawhinneyETS@aol.com
cc:
PO:
ProjectNo: Discharge

Bill to:

Helen Mawhinney
Environmental Technical Services
1548 Jacob Avenue
San Jose, CA 95118
HMawhinneyETS@aol.com

Requested TAT: 5 days

Date Received: 01/28/2011

Date Printed: 01/28/2011

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1101683-001	SW1- SW7	Water	1/27/2011 15:24	<input type="checkbox"/>	E	D	F	A	B	B	C						

Test Legend:

1	1884A W	2	BOD W	3	G-MBTEX W	4	METALSMS W	5	PH W
6	SC-120 1 W	7	TSS-100 2 W	8		9		10	
11		12							

Prepared by: Zoraida Cortez

Comments:

NOTE. Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days)
Hazardous samples will be returned to client or disposed of at client expense.

Sample Receipt Checklist

Client Name: **Environmental Technical Services** Date and Time Received: **1/28/2011 3:28:10 PM**
 Project Name: **Discharge** Checklist completed and reviewed by: **Zoraida Cortez**
 WorkOrder N°: **1101683** Matrix: **Water** Carrier: **Rob Pringle (MAI Courier)**

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp: 3.8°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Metal - pH acceptable upon receipt (pH < 2)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE)

*NOTE: If the "No" box is checked, see comments below.

Client contacted: _____ Date contacted: _____ Contacted by: _____
 Comments: _____



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Telephone: #77-252-9262 Fax: 925-252-9269

Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: Discharge	Date Sampled: 01/27/11
		Date Received: 01/28/11
	Client Contact: Helen Mawhinney	Date Extracted: 02/01/11
	Client P.O.: #TL-20480	Date Analyzed: 02/02/11

Hexane Extractable Material without Silica Gel Clean Up*

Extraction method: E1664A		Analytical method: E1664A		Work Order: 1101683		
Lab ID	Client ID	Matrix	HEM	DF	% SS	Comments
1101683-001E	SW1- SW7	W	ND	1	N/A	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	5.0	mg/L
	S	NA	NA

* water samples and all TCLP & SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

DF = dilution factor (may be raised to dilute target analyte or matrix interference).
%SS = Percent Recovery of Surrogate Standard
surrogate diluted out of range

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Angela Rydelius, Lab Manager



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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: Discharge	Date Sampled: 01/27/11
		Date Received: 01/28/11
	Client Contact: Helen Mawhinney	Date Extracted: 01/28/11-02/02/11
	Client P.O.: #TL 20480	Date Analyzed: 02/02/11

Biochemical Oxygen Demand (BOD)*

Analytical Method: SM5210B

Work Order 1101683

Lab ID	Client ID	Matrix	BOD	DF	Comments
1101683-001D	SW1- SW7	W	ND	1	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	4.0 mg/L
	S	NA

* water samples are reported in mg/L.

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AR Angela Rydelius, Lab Manager



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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: Discharge	Date Sampled: 01/27/11
		Date Received: 01/28/11
	Client Contact: Helen Mawhinney	Date Extracted: 01/31/11
	Client P.O.: #TL 20480	Date Analyzed: 01/31/11

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Bm Work Order: 1101683

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001F	SW1- SW7	W	---	---	ND	ND	ND	ND	1	105	d9

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

%SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

† The following descriptions of the TPH chromatogram are cursary in nature and McC Campbell Analytical is not responsible for their interpretation:

d9) no recognizable pattern

DHS ELAP Certification 1644  Angela Rydelius, Lab Manager



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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: Discharge	Date Sampled: 01/27/11
		Date Received: 01/28/11
	Client Contact: Helen Mawhinney	Date Extracted: 01/28/11
	Client P.O.: #TL 20480	Date Analyzed: 01/31/11

Metals*

Extraction method: E200.8			Analytical methods: E200.8				Work Order: 1101683			
Lab ID	Client ID	Matrix	Extraction Type	Copper	Lead	Nickel	Zinc	DF	% SS	Comments
001A	SW1- SW7	W	TOTAL	5.0	3.5	1.6	71	1	100	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	TOTAL	0.5	0.5	0.5	5.0	µg/L
	S	TOTAL	NA	NA	NA	NA	NA

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / WET / DI WET / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument

TOTAL - Hot acid digestion of a representative sample aliquot
 TRM - Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container
 DISS - Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample

%SS - Percent Recovery of Surrogate Standard
 DF - Dilution Factor

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AR Angela Rydelius, Lab Manager



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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax 925-252-9269

Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: Discharge	Date Sampled: 01/27/11
		Date Received: 01/28/11
	Client Contact: Helen Mawhinney	Date Extracted: 01/28/11
	Client P.O.: #TL 20480	Date Analyzed: 01/28/11

pH

Analytical Method: SM4500H+B				Work Order: 1101683	
Lab ID	Client ID	Matrix	pH	DF	Comments
1101683-001B	SW1- SW7	W	7.54 @ 19.9°C	1	

Method Accuracy and Reporting Units	W	±0.05, pH units @ °C
	S	NA

* According the formal method, this is "field test" with a 15 minute Hold Time. However, as this is unrealistically short for commercial environmental analysis, MAI has designated a 24 hour hold time for aqueous samples.

DF = Dilution Factor

AR Angela Rydelius, Lab Manager



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 Telephone: 877-252-9262 Fax 925-252-9269

Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: Discharge	Date Sampled: 01/27/11
		Date Received: 01/28/11
	Client Contact: Helen Mawhinney	Date Extracted: 01/28/11
	Client P.O.: #TL 20480	Date Analyzed: 02/03/11

Specific Conductivity*

Analytical Method: E120.1

Work Order 1101683

Lab ID	Client ID	Matrix	Specific Conductivity	DF	Comments
1101683-001B	SW1- SW7	W	988 @ 25.0°C	1	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	10 µmhos/cm @ 25°C
	S	NA
DF = Dilution Factor		

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Telephone: 877-252-9262 Fax: 925-252-9269

Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: Discharge	Date Sampled: 01/27/11
		Date Received: 01/28/11
	Client Contact: Helen Mawhinney	Date Extracted: 02/01/11
	Client P.O.: #TL 20480	Date Analyzed: 02/01/11

Total Suspended Solids*

Analytical Method: EI60.2

Work Order: 1101683

Lab ID	Client ID	Matrix	Total Suspended Solids	DF	Comments
1101683-001C	SW1 - SW7	W	18.0	2	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	1.0 mg/L
	S	NA

* water samples reported in mg/L.

DF = Dilution Factor



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Web: www.mccampbell.com E-mail: man@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 55847

WorkOrder 1101683

EPA Method SW8021B/8015Bm		Extraction SW5030B							Spiked Sample ID: 1101635-003A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)	ND	60	94.4	90	4.82	96.8	95.7	1.15	70 - 130	20	70 - 130	20
MTBE	ND	10	121	121	0	123	122	0.388	70 - 130	20	70 - 130	20
Benzene	ND	10	119	122	2.56	122	122	0	70 - 130	20	70 - 130	20
Toluene	ND	10	99.6	104	3.94	107	109	1.34	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	104	107	3.51	106	108	1.00	70 - 130	20	70 - 130	20
Xylenes	ND	30	116	119	2.36	120	121	0.444	70 - 130	20	70 - 130	20
%SS	104	10	107	115	7.42	107	107	0	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 55847 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101683-001F	01/27/11 3:24 PM	01/31/11	01/31/11 11:52 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery

E TPH(btex) = sum of BTEX areas from the FID

cluttered chromatogram; sample peak coelutes with surrogate peak

N/A = not enough sample to perform matrix spike and matrix spike duplicate

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample dated due to high matrix or analyte content, or inconsistency in sample containers

DIIS ELAP Certification 1644

QA/QC Officer



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QC SUMMARY REPORT FOR E1664A

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 55895

WorkOrder 1101683

EPA Method E1664A		Extraction E1664A							Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec	% Rec.	% RPD	% Rec	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
HEMSGT	N/A	20 R3	N/A	N/A	N/A	95.7	92.7	3.16	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 55895 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101683-001E	01/27/11 3:24 PM	02/01/11	02/02/11 10:55 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked})$; $\text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2)$.
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery
 N/A = not enough sample to perform matrix spike and matrix spike duplicate
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content

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QA/QC Officer



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QC SUMMARY REPORT FOR E200.8

WO Sample Matrix: Water

QC Matrix: Water

BatchID: 55894

WorkOrder 1101683

Analyte	EPA Method E200.8 Extraction E200.8									Spiked Sample ID: 1101167-019A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)				
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD	
Copper	53	10	NR	NR	NR	105	108	2.64	70 - 130	20	85 - 115	20	
Lead	ND	10	96.1	87.6	9.02	99.1	97.4	1.74	70 - 130	20	85 - 115	20	
Nickel	0.76	10	89.7	80.6	9.82	102	101	0.688	70 - 130	20	85 - 115	20	
Zinc	7.2	100	93.1	85	8.45	104	103	0.193	70 - 130	20	85 - 115	20	
%SS	99	750	104	99	4.42	97	95	1.37	70 - 130	20	70 - 130	20	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 55894 SUMMARY

LabID	Date Sampled	Date Extracted	Date Analyzed	LabID	Date Sampled	Date Extracted	Date Analyzed
1101683-001A	01/27/11 3:24 PM	01/28/11	01/31/11 3:59 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$.

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery

N/A = not applicable to this method

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content

DHS ELAP Certification 1644

JR QA/QC Officer



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QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: pH

Matrix: W

WorkOrder: 1101683

Method Name: SM4500H+B		Units: ±, pH units @ °C			BatchID: 55871	
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	Precision	Acceptance Criteria
1101683-001B	7.54 @ 19.9°C	1	7.53 @ 19.8°C	1	0.01	0.05

BATCH 55871 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101683-001B	01/27/11 3:24 PM	01/28/11	01/28/11 8:36 PM				

Test Method: Specific Conductivity (EPA 120.1)

Matrix: W

WorkOrder: 1101683

Method Name: E120.1		Units: µmhos/cm @ 25°C			BatchID: 55859	
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
1101683-001B	988 @ 25.0°C	1	988 @ 25.0°C	1	0.0202	<2

BATCH 55859 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101683-001B	01/27/11 3:24 PM	01/28/11	02/03/11 3:30 PM				

Test Method: Total Suspended Solids (EPA 160.2)

Matrix: W

WorkOrder: 1101683

Method Name: E160.2		Units: mg/L			BatchID: 55802	
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
1101683-001C	18.0	2	18.4	2	2.2	<15

BATCH 55802 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1101683-001C	01/27/11 3:24 PM	02/01/11	02/01/11 4:25 PM				

Dup = Duplicate; Ser. Dil = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation

Precision = Absolute Value (Sample - Duplicate)

$RPD = 100 * (Sample - Duplicate) / ((Sample + Duplicate) / 2)$

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.

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QA/QC Officer

**Laboratory Analytical Report
Composite Sample
SW-1 – SW -7
3/17/2011**

 McC Campbell Analytical, Inc. <small>"When Quality Counts"</small>		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269	
Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: Discharge 03/17/11		Date Sampled: 03/17/11
			Date Received: 03/18/11
	Client Contact: Helen Mawhinney		Date Reported: 03/25/11
	Client P.O.: TL20904		Date Completed: 03/25/11

WorkOrder: 1103642

March 25, 2011

Dear Helen:

Enclosed within are:

- 1) The results of the 2 analyzed samples from your project: Discharge 03/17/11,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McC Campbell Analytical Laboratories for your analytical needs.

Best regards,



Angela Rydelius
 Laboratory Manager
 McC Campbell Analytical, Inc.



McCAMPBELL ANALYTICAL, INC.
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 PITTSBURG, CA 94563-1701
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1103642

CHAIN OF CUSTODY RECORD

TURN AROUND TIME
 RUSH 24 HR 48 HR 72 HR 5 DAY
 GeoTracker EDF PDF Excel Write On (DW)
 Check if sample is effluent and "J" flag is required

LEVIN RICH TERMINAL "MUNICIPAL DISCHARGE"

Report To: Helen Mawhinney Bill To: ETS
 Company: ENVIRONMENTAL TECHNICAL SERVICES (ETS)
 1548 JACOB AVENUE, SAN JOSE, CA 95118
 E-Mail: hmmawhinneyets@aol.com
 Tele: (831) 236-9221 Fax: (831) 883-8490
 Project #: DISCHARGE 03/17/11 Project Name: LRT DISCHARGE 031711
 Project Locate: Levin Richmond Terminal (LRT) 402 Wright Ave, Richmond 94804

SAMPLE ID	SAMPLING		# Containers	Type Containers	MATRIX				METHOD PRESERVED										
	Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other						
SW-1 through SW7	March 17, 2011	15:35			X														
SW-1	3/17/11	13:51	3		X					X									
SW-2	3/17/11	14:07	4		X					Y									
SW-3	3/17/11	14:25	4		X					Y									
SW-4	3/17/11	14:45	4		X					Y									
SW-5	3/17/11	14:56	4		X					Y									
SW-6	3/17/11	15:07	4		X					Y									
SW-7	3/17/11	15:20	4		X					X									

Analysis Request	Other	Comments
BTEX 603 631 RL <LO ppm TPH DIESEL C10-28 35103015 (M) MOTOR OIL C28-C40 35103015B (M) TOTAL PETROLEUM OIL A GREASE 1664 TOTAL SW/SL/A/TPH MUST HAVE RL <100 ppm TSS 150.2 <500.0 ppm SPEC COND 12.1 BOD RL <500.0 ppm PH 5.818 4.00-11.0 TOC TITC AL, CU, FE, ZN, YN, NH, ZNO.A, RL <LO TITC CU RL 0.5 ppm TITC AD RL <0.3 ppm		**Indicate here if these samples are potentially dangerous to handle:

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By: <i>[Signature]</i>	Date: 3/17/11	Time: 15:35	Received By: ETS FELICE
Relinquished By: <i>[Signature]</i>	Date: 3/18/11	Time: 15:00	Received By: <i>[Signature]</i>
Relinquished By: <i>[Signature]</i>	Date: 3/17/11	Time: 17:00	Received By: <i>[Signature]</i>

40
 COMMENTS:
 ICE/GOOD CONDITION ✓
 HEAD SPACE ABSENT ✓
 DECHLORINATED IN LAB ✓
 APPROPRIATE CONTAINERS PRESERVED IN LAB ✓
 VOAS O&G METALS OTHER PRESERVATION pH<2 ✓
 Composite SW-1 through SW-7 VOAs to lab as one sample for analysis

McC Campbell Analytical, Inc.



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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1103642 ClientCode: ETS

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Report to:

Helen Mawhinney
Environmental Technical Services
1548 Jacob Avenue
San Jose, CA 95118
510-385-4308 FAX 510-522-8259

Email: HMawhinneyETS@aol.com
cc:
PO:
ProjectNo: Discharge 03/17/11

Bill to:

Helen Mawhinney
Environmental Technical Services
1548 Jacob Avenue
San Jose, CA 95118
HMawhinneyETS@aol.com

Requested TAT: 5 days

Date Received: 03/18/2011

Date Printed: 03/18/2011

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1103642-001	SW-1 through SW-7	Water	3/17/2011 15:35	<input type="checkbox"/>	A	E	C		E	D	D	B				
1103642-002	SW-1 - SW-7	Water	3/17/2011 13:51	<input type="checkbox"/>				A								

Test Legend:

1	1664A W
6	PH W
11	

2	ALKIMET W
7	SC-120 1 W
12	

3	BOD W
8	TSS-160 2 W

4	G-MBTEX W
9	

5	METALSMS W
10	

Prepared by: Zoraida Cortez

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

Sample Receipt Checklist

Client Name: **Environmental Technical Services** Date and Time Received: **3/18/2011 7:03:25 PM**
 Project Name: **Discharge 03/17/11** Checklist completed and reviewed by: **Zoraida Cortez**
 WorkOrder N° **1103642** Matrix: **Water** Carrier: **Rob Pringle (MAI Courier)**

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp: 4°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Metal - pH acceptable upon receipt (pH<2)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

Client contacted: _____ Date contacted: _____ Contacted by: _____

Comments: _____



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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: Discharge 03/17/11	Date Sampled: 03/17/11
		Date Received: 03/18/11
	Client Contact: Helen Mawhinney	Date Extracted: 03/24/11
	Client P.O.: TL20904	Date Analyzed: 03/25/11

Hexane Extractable Material without Silica Gel Clean Up*

Extraction method: E1664A

Analytical methods: E1664A

Work Order: 1103642

Lab ID	Client ID	Matrix	HEM	DF	% SS	Comments
1103642-001A	SW-1 through SW-7	W	ND	1	N/A	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	5.0	mg/L
	S	NA	NA

* water samples and all TCLP & SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L

DF = dilution factor (may be raised to dilute target analyte or matrix interference)
%SS = Percent Recovery of Surrogate Standard

surrogate diluted out of range

DHS ELAP Certification 1644

 Angela Rydelius, Lab Manager

Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: Discharge 03/17/11	Date Sampled: 03/17/11
		Date Received: 03/18/11
	Client Contact: Helen Mawhinney	Date Extracted: 03/18/11
	Client P.O.: TL20904	Date Analyzed: 03/24/11

Alkali Metals by ICP*

Extraction method: E2007 Analytical methods: E2007 Work Order: 1103642

Lab ID	Client ID	Matrix	Extraction Type	Aluminum	Iron	DF	%SS	Comments
001E	SW-1 through SW-7	W	TOTAL	610	1300	1	94	

Reporting Limit for DF = 1;	W	TOTAL	50	50	µg/L
ND means not detected at or above the reporting limit	S	TOTAL	NA	NA	NA

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter

means surrogate recovery outside of acceptance range due to matrix interference; & means low or no surrogate due to matrix interference; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot
 TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container
 DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample

%SS = Percent Recovery of Surrogate Standard
 DF = Dilution Factor

DHS ELAP Certification 1644 *AR* Angela Rydelius, Lab Manager



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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: Discharge 03/17/11	Date Sampled: 03/17/11
		Date Received: 03/18/11
	Client Contact: Helen Mawhinney	Date Extracted: 03/18/11-03/23/11
	Client P.O.: TL20904	Date Analyzed: 03/23/11

Biochemical Oxygen Demand (BOD)*

Analytical Method: SM5210B

Work Order: 1103642

Lab ID	Client ID	Matrix	BOD	DF	Comments
1103642-001C	SW-1 through SW-7	W	ND	1	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	40 mg/L	
	S	NA	
* water samples are reported in mg/L.			

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AR Angela Rydelius, Lab Manager



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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: Discharge 03/17/11	Date Sampled: 03/17/11
		Date Received: 03/18/11
	Client Contact: Helen Mawhinney	Date Extracted: 03/22/11
	Client P.O.: TL20904	Date Analyzed: 03/22/11

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B

Analytical methods: SW8021 B/R015Bm

Work Order: 1103642

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
002A	SW-1 - SW-7	W	--	--	ND	ND	ND	ND	1	102	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	50	50	0.5	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	mg/kg

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference. %SS - Percent Recovery of Surrogate Standard; DF - Dilution Factor

† The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

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AR Angela Rydelius, Lab Manager



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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: Discharge 03/17/11	Date Sampled: 03/17/11
		Date Received: 03/18/11
	Client Contact: Helen Mawhinney	Date Extracted: 03/18/11
	Client P.O.: TL20904	Date Analyzed: 03/25/11

Metals*

Extraction method: E200.8

Analytical methods: E200.8

Work Order: 1103642

Lab ID	Client ID	Matrix	Extraction Type	Copper	Nickel	Vanadium	Zinc	DF	% SS	Comments
001E	SW-1 through SW-7	W	TOTAL	8.6	3.1	6.8	72	1	94	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	TOTAL	0.5	0.5	0.5	5.0	µg/L
	S	TOTAL	NA	NA	NA	NA	NA

*water samples are reported in µg/L, product/non-aqueous liquid samples and all TCLP / WET / DI WET / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL - Hot acid digestion of a representative sample aliquot.

TRM - Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.

DISS - Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

%SS - Percent Recovery of Surrogate Standard

DF - Dilution Factor

DHS ELAP Certification 1644

AR Angela Rydelius, Lab Manager



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 Web: www.mccampbell.com E-mail: mnan@mccampbell.com
 Telephone: 877-252-9262 Fax: 925-252-9269

Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: Discharge 03/17/11	Date Sampled: 03/17/11
		Date Received: 03/18/11
	Client Contact: Helen Mawhinney	Date Extracted: 03/18/11
	Client P.O.: TL20904	Date Analyzed: 03/18/11

pH*

Analytical Method: SM4500H+B

Work Order: 1103642

Lab ID	Client ID	Matrix	pH	DF	Comments
1103642-001D	SW-1 through SW-7	W	7.09 @ 18.0°C	1	

Method Accuracy and Reporting Units	W	±0.05, pH units @ °C
	S	NA

* According to the formal method, this is "field test" with a 15 minute Hold Time. However, as this is unrealistically short for commercial environmental analysis, MAI has designated a 24 hour hold time for aqueous samples.

DF - Dilution Factor

DIIS ELAP Certification 1644

Angela Rydelius, Lab Manager



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
 Web: www.mccampbell.com E-mail: msa@mccampbell.com
 Telephone: 877-252-9262 Fax: 925-252-9269

Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: Discharge 03/17/11	Date Sampled: 03/17/11
		Date Received: 03/18/11
	Client Contact: Helen Mawhinney	Date Extracted: 03/18/11
	Client P.O.: TL20904	Date Analyzed: 03/23/11

Specific Conductivity*

Analytical Method: EI20.1

Work Order: 1103642

Lab ID	Client ID	Matrix	Specific Conductivity	DF	Comments
1103642-001D	SW-1 through SW-7	W	156 @ 25.0°C	1	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	10 µmhos/cm @ 25°C
	S	NA
DF - Dilution Factor		

DHS ELAP Certification 1644 AR Angela Rydelius, Lab Manager



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Telephone: 877-252-9262 Fax: 925-252-9269

Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: Discharge 03/17/11	Date Sampled: 03/17/11
		Date Received: 03/18/11
	Client Contact: Helen Mawhinney	Date Extracted: 03/21/11
	Client P.O.: TL20904	Date Analyzed: 03/21/11

Total Suspended Solids*

Analytical Method: EI60.2

Work Order 1103642

Lab ID	Client ID	Matrix	Total Suspended Solids	DF	Comments
1103642-001B	SW-1 through SW-7	W	200	5	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	1.0 mg/L	
	S	NA	
* water samples reported in mg/L			
DF = Dilution Factor			

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AR Angela Rydelius, Lab Manager

QC SUMMARY REPORT FOR E1664A

W O Sample Matrix: Water QC Matrix: Water BatchID: 57045 WorkOrder: 1103642

EPA Method E1664A	Extraction E1664A							Spiked Sample ID: N/A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
HEM	N/A	20.83	N/A	N/A	N/A	93.5	96.4	3.04	N/A	N/A	70 - 130	30
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

BATCH 57045 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1103642-001A	03/17/11 3:35 PM	03/24/11	03/25/11 1:30 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation
 $\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked})$; $\text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2)$.
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogeneous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 N/A = not enough sample to perform matrix spike and matrix spike duplicate
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content

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JR QA/QC Officer

QC SUMMARY REPORT FOR E200.7

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 57032 WorkOrder 1103642

EPA Method E200.7	Extraction E200.7								Spiked Sample ID: 1103423-008A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec	% Rec.	% RPD	% Rec	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aluminum	55	1000	90.7	90.7	0	88.4	87.6	0.943	70 - 130	20	85 - 115	20
Iron	ND	1000	96.8	98.6	1.87	96	94.4	1.58	70 - 130	20	85 - 115	20
%SS:	99	750	94	98	3.88	92	95	2.22	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 57032 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1103642-001E	03/17/11 3:35 PM	03/18/11	03/24/11 1:09 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery

N/A = not applicable to this method

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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 QA/QC Officer

QC SUMMARY REPORT FOR E200.8

W/O Sample Matrix: Water QC Matrix: Water BatchID: 57040 WorkOrder: 1103642

EPA Method E200.8	Extraction E200.8								Spiked Sample ID: 1103423-008A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aluminum	60	100	89.2	89.3	0.0670	98.4	97.9	0.448	70 - 130	20	85 - 115	20
Copper	170	10	NR	NR	NR	99.1	99.1	0	70 - 130	20	85 - 115	20
Iron	ND	100	108	103	5.21	109	111	1.73	70 - 130	20	85 - 115	20
Nickel	0.86	10	93.1	99.3	5.92	98.7	100	1.60	70 - 130	20	85 - 115	20
Vanadium	2.7	10	98.5	105	5.44	99.2	101	1.48	70 - 130	20	85 - 115	20
Zinc	7.4	100	94.9	98.2	3.17	102	101	0.394	70 - 130	20	85 - 115	20
%SS:	102	750	99	107	8.17	92	99	7.76	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 57040 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1103642-001E	03/17/11 3:35 PM	03/18/11	03/25/11 11:19 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery

N/A = not applicable to this method

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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 QA/QC Officer

QC SUMMARY REPORT FOR SM5210B

W.O Sample Matrix: Water QC Matrix: Water BatchID: 56956 WorkOrder 1103642

EPA Method SM5210B	Extraction SM5210B								Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
BOD	N/A	198	N/A	N/A	N/A	99.5	99	0.509	N/A	N/A	80 - 120	16
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

BATCH 56956 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1103642-001C	03/17/11 3:35 PM	03/18/11	03/23/11 7:21 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample, LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation
 $\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked})$; $\text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2)$.
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

 QA/QC Officer

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 57035 WorkOrder: 1103642

Analyte	EPA Method SW8021B/8015Bm Extraction SW5030B Spiked Sample ID: 1103635-001A								Acceptance Criteria (%)			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	MS / MSD	RPD	LCS/LCSD	RPD
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD				
TPH(btex)	ND	60	100	98.6	1.84	96.7	97.4	0.726	70 - 130	20	70 - 130	20
MTBE	ND	10	110	112	2.53	105	110	4.61	70 - 130	20	70 - 130	20
Benzene	ND	10	101	99.4	1.64	98.4	101	2.54	70 - 130	20	70 - 130	20
Toluene	ND	10	101	100	0.527	98.9	102	3.41	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	100	99.9	0.0205	97.8	100	2.64	70 - 130	20	70 - 130	20
Xylenes	ND	30	103	103	0	100	104	3.47	70 - 130	20	70 - 130	20
%SS:	101	10	97	97	0	98	97	0.728	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 57035 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1103642-002A	03/17/11 1:51 PM	03/22/11	03/22/11 11:40 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation
 $\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked})$; $\text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2)$
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery
 Σ TPH(btex) = sum of BTEX areas from the FID.
 # cluttered chromatogram; sample peak coelutes with surrogate peak.
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.
 NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers

DHS ELAP Certification 1644

JR QA/QC Officer

QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: pH Matrix: W WorkOrder: 1103842

Method Name: SM4500H+B		Units: ±, pH units @ °C			BatchID: 57043	
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	Precision	Acceptance Criteria
1103642-001D	7.09 @ 18.0°C	1	7.11 @ 18.0°C	1	0.02	0.05

BATCH 57043 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1103642-001D	03/17/11 3:35 PM	03/18/11	03/18/11 7:48 PM				

Test Method: Specific Conductivity (EPA 120.1) Matrix: W WorkOrder: 1103842

Method Name: E120.1		Units: µmhos/cm @ 25°C			BatchID: 57042	
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
1103642-001D	156 @ 25.0°C	1	156 @ 25.0°C	1	0.0642	<2

BATCH 57042 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1103642-001D	03/17/11 3:35 PM	03/18/11	03/23/11 12:20 PM				

Test Method: Total Suspended Solids (EPA 160.2) Matrix: W WorkOrder: 1103842

Method Name: E160.2		Units: mg/L			BatchID: 57049	
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
1103642-001B	20.0	5	21.0	5	4.88	<15

BATCH 57049 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1103642-001B	03/17/11 3:35 PM	03/21/11	03/21/11 8:40 PM				

Dup = Duplicate; Ser. Dil = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation

Precision = Absolute Value (Sample - Duplicate)

$RPD = 100 * (Sample - Duplicate) / ((Sample + Duplicate) / 2)$

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.

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 QA/QC Officer

**Laboratory Analytical Report
Discrete Samples
SW-3 through SW-7
March 18, 2011**

 McC Campbell Analytical, Inc. "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: msh@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269	
Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRT Annual 110318; Levin Rich. Term (LRT)	Date Sampled: 03/18/11	
	Client Contact: Helen Mawhinney	Date Received: 03/18/11	
	Client P.O.: TL20903	Date Reported: 03/25/11	
		Date Completed: 03/25/11	

WorkOrder: 1103650

March 25, 2011

Dear Helen:

Enclosed within are:

- 1) The results of the 9 analyzed samples from your project: LRT Annual 110318; Levin Rich. Term (LRT),
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,



Angela Rydelius
 Laboratory Manager
 McC Campbell Analytical, Inc.

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1103650

ClientCode: ETS

Water/Trax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Report to:

Helen Mawhinney
Environmental Technical Services
1548 Jacob Avenue
San Jose, CA 95118
510-385-4308 FAX 510-522-6259

Email: HMawhinneyETS@aol.com
cc:
PO:
ProjectNo. LRT Annual 110318; Levin Rich. Term (LRT)

Bill to:

Helen Mawhinney
Environmental Technical Services
1548 Jacob Avenue
San Jose, CA 95118
HMawhinneyETS@aol.com

Requested TAT: 5 days

Date Received: 03/18/2011

Date Printed: 03/18/2011

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1103650-001	SW1	Water	3/18/2011 11:15	<input type="checkbox"/>	F	C	I	H	A	I	E	G	B	D		
1103650-002	SW2	Water	3/18/2011 11:22	<input type="checkbox"/>	F	C	I	H	A	I	E	G	B	D		
1103650-003	SW3	Water	3/18/2011	<input type="checkbox"/>										D		
1103650-003	SW3	Water	3/18/2011 12:59	<input type="checkbox"/>	F	C	I	H	A	I	E	G	B	D		
1103650-004	SW4	Water	3/18/2011 12:36	<input type="checkbox"/>	F	C	I	H	A	I	E	G	B	D		
1103650-005	SW5	Water	3/18/2011 12:19	<input type="checkbox"/>	F	C	I	H	A	I	E	G	B	D		
1103650-006	SW6	Water	3/18/2011 12:01	<input type="checkbox"/>	F	C	I	H	A	I	E	G	B	D		
1103650-007	SW-7	Water	3/18/2011 11:41	<input type="checkbox"/>	F	C	I	H	A	I	E	G	B	D		
1103650-008	S Parr SW-11	Water	3/18/2011 9:46	<input type="checkbox"/>	F	C	I	H	A	I	E	G	B	D		
1103650-009	N Parr SW-12	Water	3/18/2011 10:21	<input type="checkbox"/>	F	C	I	H	A	I	E	G	B	D		

Test Legend:

1	1664A SG W
6	METALSMS W
11	

2	8081PCB W
7	SC W
12	

3	ALKIMET W
8	TOC W

4	COD W
9	TPH(DMO) W

5	GAS8260 W
10	TSS W

The following SampleIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A contain testgroup.

Prepared by: Zoraida Cortez

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

Sample Receipt Checklist

Client Name: Environmental Technical Services	Date and Time Received: 3/18/2011 8:03:11 PM
Project Name: LRT Annual 110318; Levin Rich. Term (LRT)	Checklist completed and reviewed by: Zoraida Cortez
WorkOrder N°: 1103650 Matrix: Water	Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp: 4°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Metal - pH acceptable upon receipt (pH<2)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE)

* NOTE: if the "No" box is checked, see comments below.

Client contacted:	Date contacted:	Contacted by:
-------------------	-----------------	---------------

Comments:



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Telephone: 877-252-9262 Fax: 925-252-9269

Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRT Annual 110318; Levin Rich. Term (LRT)	Date Sampled: 03/18/11
	Client Contact: Helen Mawhinney	Date Received: 03/18/11
	Client P.O.: TL20903	Date Extracted: 03/24/11
		Date Analyzed: 03/25/11

Hexane Extractable Material with Silica Gel Clean Up*

Extraction method: E1664A

Analytical methods: E1664A

Work Order: 1103650

Lab ID	Client ID	Matrix	HEMSGT	DF	% SS	Comments
1103650-001F	SW1	W	ND	1	N/A	
1103650-002F	SW2	W	ND	1	N/A	
1103650-003F	SW3	W	ND	1	N/A	
1103650-004F	SW4	W	ND	1	N/A	
1103650-005F	SW5	W	ND	1	N/A	
1103650-006F	SW6	W	ND	1	N/A	
1103650-007F	SW-7	W	ND	1	N/A	
1103650-008F	S Parr SW-11	W	ND	1	N/A	
1103650-009F	N Parr SW-12	W	ND	1	N/A	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	5.0	mg/L
	S	NA	NA

* water samples and all TCLP & SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L

DF = dilution factor (may be raised to dilute target analyte or matrix interference).

%SS = Percent Recovery of Surrogate Standard

surrogate diluted out of range or not applicable to this sample.

DHS ELAP Certification 1644

AR Angela Rydelius, Lab Manager



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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRT Annual 110318; Levin Rich. Term (LRT)	Date Sampled: 03/18/11
	Client Contact: Helen Mawhinney	Date Received: 03/18/11
	Client P.O.: TL20903	Date Extracted: 03/18/11
		Date Analyzed: 03/21/11-03/22/11

Organochlorine Pesticides by GC-ECD (8080 Basic Target List) + PCBs*

Extraction Method: SWJ510C

Analytical Method: SW8081A/8082

Work Order: 1103650

Lab ID	1103650-001C	1103650-002C	1103650-003C	1103650-004C	Reporting Limit for DF = 1	
Client ID	SW1	SW2	SW3	SW4	S	W
Matrix	W	W	W	W		
DF	1	1	1	1		
Compound	Concentration				µg/kg	µg/L
Aldrin	ND	ND	ND	ND	NA	0.005
a-BHC	ND	ND	ND	ND	NA	0.01
b-BHC	ND	ND	ND	ND	NA	0.005
d-BHC	ND	ND	ND	ND	NA	0.005
α-BHC	ND	ND	ND	ND	NA	0.02
Chlordane (Technical)	ND	ND	ND	ND	NA	0.1
α-Chlordane	ND	ND	ND	ND	NA	0.05
α-Chlordane	ND	ND	ND	ND	NA	0.05
p,p-DDD	ND	ND	ND	ND	NA	0.01
p,p-DDE	ND	ND	ND	ND	NA	0.01
p,p-DDT	ND	ND	ND	ND	NA	0.01
Dieldrin	ND	ND	ND	ND	NA	0.01
Endosulfan I	ND	ND	ND	ND	NA	0.02
Endosulfan II	ND	ND	ND	ND	NA	0.02
Endosulfan sulfate	ND	ND	ND	ND	NA	0.05
Endrin	ND	ND	ND	ND	NA	0.01
Endrin aldehyde	ND	ND	ND	ND	NA	0.05
Endrin ketone	ND	ND	ND	ND	NA	0.05
Heptachlor	ND	ND	ND	ND	NA	0.01
Heptachlor epoxide	ND	ND	ND	ND	NA	0.01
Hexachlorobenzene	ND	ND	ND	ND	NA	0.5
Hexachlorocyclopentadiene	ND	ND	ND	ND	NA	1.0
Methoxychlor	ND	ND	ND	ND	NA	0.1
Toxaphene	ND	ND	ND	ND	NA	0.5
Aroclor 1016	ND	ND	ND	ND	NA	0.5
Aroclor 1221	ND	ND	ND	ND	NA	0.5
Aroclor 1232	ND	ND	ND	ND	NA	0.5
Aroclor 1242	ND	ND	ND	ND	NA	0.5
Aroclor 1248	ND	ND	ND	ND	NA	0.5
Aroclor 1254	ND	ND	ND	ND	NA	0.5
Aroclor 1260	ND	ND	ND	ND	NA	0.5
PCBs, total	ND	ND	ND	ND	NA	0.5

Surrogate Recoveries (%)

%SS	85	84	83	86
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Comments

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

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 Angela Rydelius, Lab Manager

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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRT Annual 110318; Levin Rich. Term (LRT)	Date Sampled: 03/18/11
	Client Contact: Helen Mawhinney	Date Received: 03/18/11
	Client P.O.: TL20903	Date Extracted: 03/18/11
		Date Analyzed: 03/21/11-03/22/11

Organochlorine Pesticides by GC-ECD (8080 Basic Target List) + PCBs*

Extraction Method: SW3510C

Analytical Method: SW8081A/8082

Work Order 1103650

Lab ID	1103650-005C	1103650-006C	1103650-007C	1103650-008C	Reporting Limit for DF =1	
Client ID	SW5	SW6	SW-7	S Parr SW-11	S	W
Matrix	W	W	W	W		
DF	1	1	1	1		
Compound	Concentration				µg/kg	µg/L
Aldrin	ND	ND	ND	ND	NA	0.005
a-BHC	ND	ND	ND	ND	NA	0.01
b-BHC	ND	ND	ND	ND	NA	0.005
d-BHC	ND	ND	ND	ND	NA	0.005
α-BHC	ND	ND	ND	ND	NA	0.02
Chlordane (Technical)	ND	ND	ND	ND	NA	0.1
α-Chlordane	ND	ND	ND	ND	NA	0.05
α-Chlordane	ND	ND	ND	ND	NA	0.05
p,p-DDD	ND	ND	ND	ND	NA	0.01
p,p-DDE	ND	0.045	ND	ND	NA	0.01
p,p-DDT	ND	0.54	ND	ND	NA	0.01
Dieldrin	ND	ND	0.015	ND	NA	0.01
Endosulfan I	ND	ND	ND	ND	NA	0.02
Endosulfan II	ND	ND	ND	ND	NA	0.02
Endosulfan sulfate	ND	ND	ND	ND	NA	0.05
Endrin	ND	ND	ND	ND	NA	0.01
Endrin aldehyde	ND	ND	ND	ND	NA	0.05
Endrin ketone	ND	ND	ND	ND	NA	0.05
Heptachlor	ND	ND	ND	ND	NA	0.01
Heptachlor epoxide	ND	ND	ND	ND	NA	0.01
Hexachlorobenzene	ND	ND	ND	ND	NA	0.5
Hexachlorocyclopentadiene	ND	ND	ND	ND	NA	1.0
Methoxychlor	ND	ND	ND	ND	NA	0.1
Toxaphene	ND	ND	ND	ND	NA	0.5
Aroclor1016	ND	ND	ND	ND	NA	0.5
Aroclor1221	ND	ND	ND	ND	NA	0.5
Aroclor1232	ND	ND	ND	ND	NA	0.5
Aroclor1242	ND	ND	ND	ND	NA	0.5
Aroclor1248	ND	ND	ND	ND	NA	0.5
Aroclor1254	ND	ND	ND	ND	NA	0.5
Aroclor1260	ND	ND	ND	ND	NA	0.5
PCBs, total	ND	ND	ND	ND	NA	0.5

Surrogate Recoveries (%)

%SS:	86	87	88	83
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Comments

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRT Annual 110318; Levin Rich. Term (LRT)	Date Sampled: 03/18/11
	Client Contact: Helen Mawhinney	Date Received: 03/18/11
	Client P.O.: TL20903	Date Extracted: 03/18/11
		Date Analyzed: 03/21/11-03/22/11

Organochlorine Pesticides by GC-ECD (8080 Basic Target List) + PCBs*

Extraction Method: SWJ510C

Analytical Method: SW8081A/B0P2

Work Order: 1103650

Lab ID	Client ID	Matrix	DF	Reporting Limit for DF = 1	
				S	W
Compound	Concentration			µg/kg	µg/L
Aldrin	ND			NA	0.005
a-BHC	ND			NA	0.01
b-BHC	ND			NA	0.005
d-BHC	ND			NA	0.005
α-BHC	ND			NA	0.02
Chlordane (Technical)	ND			NA	0.1
α-Chlordane	ND			NA	0.05
α-Chlordane	ND			NA	0.05
p,p-DDD	ND			NA	0.01
p,p-DDF	ND			NA	0.01
p,p-DDT	ND			NA	0.01
Dieldrin	ND			NA	0.01
Endosulfan I	ND			NA	0.02
Endosulfan II	ND			NA	0.02
Endosulfan sulfate	ND			NA	0.05
Endrin	ND			NA	0.01
Endrin aldehyde	ND			NA	0.05
Endrin ketone	ND			NA	0.05
Heptachlor	ND			NA	0.01
Heptachlor epoxide	ND			NA	0.01
Hexachlorobenzene	ND			NA	0.5
Hexachlorocyclopentadiene	ND			NA	1.0
Methoxychlor	ND			NA	0.1
Toxaphene	ND			NA	0.5
Aroclor 1016	ND			NA	0.5
Aroclor 1221	ND			NA	0.5
Aroclor 1232	ND			NA	0.5
Aroclor 1242	ND			NA	0.5
Aroclor 1248	ND			NA	0.5
Aroclor 1254	ND			NA	0.5
Aroclor 1260	ND			NA	0.5
PCBs, total	ND			NA	0.5

Surrogate Recoveries (%)

%SS	80			
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Comments

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS - Percent Recovery of Surrogate Standard; DF - Dilution Factor.

surrogate diluted out of range or surrogate coelutes with another peak.

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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRT Annual 110318; Levin Rich. Term (LRT)	Date Sampled: 03/18/11
	Client Contact: Helen Mawhinney	Date Received: 03/18/11
	Client P.O.: TL20903	Date Analyzed: 03/22/11-03/24/11

Alkali Metals by ICP*

Extraction method: E2007 Analytical methods: E2007 Work Order: 1103650

Lab ID	Client ID	Matrix	Extraction Type	Aluminum	Iron	DF	% SS	Comments
0011	SW1	W	TOTAL	4400	15,000	1	105	
0021	SW2	W	TOTAL	9500	35,000	1	92	
0031	SW3	W	TOTAL	4100	11,000	1	100	
0041	SW4	W	TOTAL	1600	4000	1	91	
0051	SW5	W	TOTAL	740	2200	1	95	
0061	SW6	W	TOTAL	470	910	1	89	
0071	SW-7	W	TOTAL	310	570	1	91	
0081	S Parr SW-11	W	TOTAL	1200	3000	1	93	
0091	N Parr SW-12	W	TOTAL	690	1300	1	99	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	TOTAL	50	50	µg/L
	S	TOTAL	NA	NA	NA

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter

means surrogate recovery outside of acceptance range due to matrix interference; & means low or no surrogate due to matrix interference; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot
 TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.
 DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample

%SS = Percent Recovery of Surrogate Standard
 DF = Dilution Factor

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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRT Annual 110318; Levin Rich. Term (LRT)	Date Sampled: 03/18/11
	Client Contact: Helen Mawhinney	Date Received: 03/18/11
	Client P.O.: TL20903	Date Extracted: 03/24/11-03/25/11
		Date Analyzed: 03/24/11-03/25/11

Chemical Oxygen Demand (COD)*

Analytical Method: SM5220D		Work Order: 1103650			
Lab ID	Client ID	Matrix	COD	DF	Comments
1103650-001H	SW1	W	86	1	
1103650-002H	SW2	W	190	1	
1103650-003H	SW3	W	33	1	
1103650-004H	SW4	W	10	1	
1103650-005H	SW5	W	ND	1	
1103650-006H	SW6	W	ND	1	
1103650-008H	S Parr SW-11	W	3200	5	
1103650-009H	N Parr SW-12	W	ND	1	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	10 mg/L
	S	NA

*water/product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter

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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRT Annual 110318; Levin Rich. Term (LRT)	Date Sampled: 03/18/11 Date Received: 03/18/11
	Client Contact: Helen Mawhinney	Date Extracted: 03/21/11-03/22/11
	Client P.O.: TL20903	Date Analyzed: 03/21/11-03/22/11

TPH(g) by Purge & Trap and GC/MS*

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Comments
001 A	SW1	W	ND	1	98	
002 A	SW2	W	ND	1	97	
003 A	SW3	W	ND	1	97	
004 A	SW4	W	ND	1	96	
005 A	SW5	W	ND	1	95	
006 A	SW6	W	ND	1	96	
007 A	SW-7	W	ND	1	96	
008 A	S Parr SW-11	W	ND	1	96	
009 A	N Parr SW-12	W	ND	1	101	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis

surrogate diluted out of range or coelutes with another peak; &} low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard
 DF = Dilution Factor

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	Client Contact: Helen Mawhinney	Date Received: 03/18/11
	Client P.O.: TL20903	Date Extracted: 03/21/11-03/22/11
		Date Analyzed: 03/21/11-03/22/11

MTBE and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1103650

Lab ID	1103650-001A	1103650-002A	1103650-003A	1103650-004A	Reporting Limit for DF =1	
Client ID	SW1	SW2	SW3	SW4		
Matrix	W	W	W	W		
DF	1	1	1	1		
Compound	Concentration				ug/kg	µg/L
Benzene	ND	ND	ND	ND	NA	0.5
Ethylbenzene	ND	ND	ND	ND	NA	0.5
Methyl-t-butyl ether (MTBE)	ND	ND	ND	ND	NA	0.5
Toluene	ND	ND	ND	ND	NA	0.5
Xylenes	ND	ND	ND	ND	NA	0.5

Surrogate Recoveries (%)

%SS1:	77	79	78	78	
%SS2:	86	86	85	85	

Comments

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRT Annual 110318; Levin Rich Term (LRT)	Date Sampled: 03/18/11
	Client Contact: Helen Mawhinney	Date Received: 03/18/11
	Client P.O.: TL20903	Date Extracted: 03/21/11-03/22/11
		Date Analyzed: 03/21/11-03/22/11

MTBE and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW6260B

Work Order: 1103650

Lab ID	1103650-005A	1103650-006A	1103650-007A	1103650-008A	Reporting Limit for DF =1	
Client ID	SW5	SW6	SW-7	SPan SW-11		
Matrix	W	W	W	W		
DF	1	1	1	1	S	W
Compound	Concentration				ug/kg	ug/L
Benzene	ND	ND	ND	ND	NA	0.5
Ethylbenzene	ND	ND	ND	ND	NA	0.5
Methyl-t-butyl ether (MTBE)	ND	ND	ND	ND	NA	0.5
Toluene	ND	ND	ND	ND	NA	0.5
Xylenes	ND	ND	ND	ND	NA	0.5

Surrogate Recoveries (%)

%SS1:	79	79	78	79	
%SS2:	84	85	84	84	

Comments

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS - Percent Recovery of Surrogate Standard

DF = Dilution Factor

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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118		Client Project ID: LRT Annual 110318; Levin Rich. Term (LRT)		Date Sampled: 03/18/11 Date Received: 03/18/11		
		Client Contact: Helen Mawhinney		Date Extracted: 03/21/11-03/22/11		
		Client P.O.: TL20903		Date Analyzed: 03/21/11-03/22/11		
MTBE and BTEX by GC/MS*						
Extraction Method: 8W5030B		Analytical Method: SWR760R		Work Order: 1103650		
Lab ID	1103650-009A				Reporting Limit for DF =1	
Client ID	N Par SW-12					
Matrix	W					
DF	1					
				S	W	
Compound	Concentration				ug/kg	ug/L
Benzene	ND				NA	0.5
Ethylbenzene	ND				NA	0.5
Methyl-t-butyl ether (MTBE)	ND				NA	0.5
Toluene	ND				NA	0.5
Xylenes	ND				NA	0.5
Surrogate Recoveries (%)						
%SS1	84					
%SS2	87					
Comments						
<p>* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.</p> <p>ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.</p> <p># surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.</p> <p>%SS = Percent Recovery of Surrogate Standard DF = Dilution Factor</p>						

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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118			Client Project ID: LRT Annual 110318; Levin Rich. Term (LRT)			Date Sampled: 03/18/11 Date Received: 03/18/11 Date Extracted: 03/18/11 Date Analyzed: 03/23/11-03/24/11				
Metals*										
Extraction method: E200.8			Analytical methods: E200.8				Work Order: 1103650			
Lab ID	Client ID	Matrix	Extraction Type	Copper	Lead	Vanadium	Zinc	DF	% SS	Comments
0011	SW1	W	TOTAL	87	240	25	910	1	105	
0021	SW2	W	TOTAL	190	720	41	1900	1	92	
0031	SW3	W	TOTAL	18	29	21	190	1	96	
0041	SW4	W	TOTAL	24	31	13	160	1	91	
0061	SW6	W	TOTAL	10	10	5.5	65	1	94	
0071	SW-7	W	TOTAL	10	6.1	4.7	43	1	94	
0081	S Parr SW-11	W	TOTAL	13	18	66	120	1	88	
0091	N Parr SW-12	W	TOTAL	13	13	7.2	91	1	102	
Reporting Limit for DF = 1; ND means not detected at or above the reporting limit		W	TOTAL	0.5	0.5	0.5	5.0	µg/L		
		S	TOTAL	NA	NA	NA	NA	NA		
*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / WET / DI WET / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter # means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument. TOTAL = Hot acid digestion of a representative sample aliquot. TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container. DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample %SS = Percent Recovery of Surrogate Standard DF = Dilution Factor										

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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRT Annual 110318; Levin Rich. Term (LRT)	Date Sampled: 03/18/11
	Client Contact: Helen Mawhinney	Date Received: 03/18/11
	Client P.O.: TL20903	Date Extracted: 03/23/11
		Date Analyzed: 03/23/11

Specific Conductivity*

Analytical Method: SM2510B

Work Order: 1103650

Lab ID	Client ID	Matrix	Specific Conductivity	DF	Comments
1103650-001E	SW1	W	98.3 @ 25.0°C	1	
1103650-002E	SW2	W	88.2 @ 25.0°C	1	
1103650-003E	SW3	W	247 @ 25.0°C	1	
1103650-004E	SW4	W	140 @ 25.0°C	1	
1103650-005E	SW5	W	64.4 @ 25.0°C	1	
1103650-006E	SW6	W	64.5 @ 25.0°C	1	
1103650-007E	SW-7	W	128 @ 25.0°C	1	
1103650-008E	S Parr SW-11	W	157 @ 25.0°C	1	
1103650-009E	N Parr SW-12	W	58.0 @ 25.0°C	1	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	10 µmhos/cm @ 25°C
	S	NA

DF = Dilution Factor

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	Client Contact: Helen Mawhinney	Date Received: 03/18/11
	Client P.O.: TL20903	Date Extracted: 03/21/11
		Date Analyzed: 03/21/11

Total Organic Carbon (TOC) reported as NPOC*

Analytical Method: E415.3

Work Order 1103650

Lab ID	Client ID	Matrix	TOC	DF	Comments
1103650-001G	SW1	W	3.4	1	
1103650-002G	SW2	W	1.8	1	
1103650-003G	SW3	W	1.6	1	
1103650-004G	SW4	W	2.1	1	
1103650-005G	SW5	W	1.7	1	
1103650-006G	SW6	W	1.8	1	
1103650-007G	SW-7	W	3.1	1	
1103650-008G	S Parr SW-11	W	3.4	1	
1103650-009G	N Parr SW-12	W	4.2	1	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	0.3 mg/L
	S	NA

* water samples are reported in mg/L. Settleable solids and floatable matter are excluded from analysis per E415.3. TOC is reported as NPOC

TOC = Total Organic Carbon; NPOC = Non-Purgeable Organic Carbon; DOC = Dissolved Organic Carbon;
POC = Purgeable Organic Carbon; IC = Inorganic Carbon; TC = Total Carbon.

DF = Dilution Factor

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 Angela Rydelius, Lab Manager

 McC Campbell Analytical, Inc. "When Quality Counts"	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269	
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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRT Annual 110318; Levin Rich. Term (LRT)	Date Sampled: 03/18/11
	Client Contact: Helen Mawhinney	Date Received: 03/18/11
	Client P.O.: TL20903	Date Analyzed: 03/18/11-03/21/11
		Date Extracted: 03/18/11

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3510C Analytical methods: SW8015B Work Order: 1103650

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	%SS	Comments
1103650-001B	SW1	W	480	760	1	97	e7,e2
1103650-002B	SW2	W	ND	ND	1	95	
1103650-003B	SW3	W	ND	ND	1	95	
1103650-004B	SW4	W	130	ND	1	96	e2
1103650-005B	SW5	W	54	ND	1	97	e2
1103650-006B	SW6	W	54	ND	1	95	e2
1103650-007B	SW-7	W	ND	ND	1	98	
1103650-008B	S Parr SW-11	W	210	560	1	98	e7,e2
1103650-009B	N Parr SW-12	W	67	ND	1	96	e2

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	NA	NA	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

†The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

e2) diesel range compounds are significant; no recognizable pattern

e7) oil range compounds are significant

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 Angela Rydelius, Lab Manager

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Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: LRT Annual 110318; Levin Rich. Term (LRT)	Date Sampled: 03/18/11
	Client Contact: Helen Mawhinney	Date Received: 03/18/11
	Client P.O.: TL20903	Date Extracted: 03/21/11
		Date Analyzed: 03/21/11

Total Suspended Solids*

Analytical Method: SM2540D

Work Order: 1103650

Lab ID	Client ID	Matrix	Total Suspended Solids	DF	Comments
1103650-001D	SW1	W	222	10	
1103650-002D	SW2	W	516	20	
1103650-003D	SW3	W	420	20	
1103650-004D	SW4	W	88.0	10	
1103650-005D	SW5	W	72.0	5	
1103650-006D	SW6	W	18.0	2	
1103650-007D	SW-7	W	12.2	1	
1103650-008D	S Parr SW-11	W	9530	50	
1103650-009D	N Parr SW-12	W	31.0	5	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	1.0 mg/L
	S	NA

* water samples reported in mg/L.

DF = Dilution Factor

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Angela Rydelius, Lab Manager

QC SUMMARY REPORT FOR E410.4

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 56954 WorkOrder 1103650

EPA Method SM5220D		Extraction SM5220D							Spiked Sample ID: 1103513-003A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
COD	22	400	89.8	93.5	3.80	102	100	1.82	80 - 120	20	90 - 110	20
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

BATCH 56954 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1103650-001H	03/18/11 11:15 AM	03/24/11	03/24/11 3:32 PM	1103650-002H	03/18/11 11:22 AM	03/25/11	03/25/11 12:00 PM
1103650-003H	03/18/11 12:59 PM	03/24/11	03/24/11 3:38 PM	1103650-004H	03/18/11 12:36 PM	03/24/11	03/24/11 3:44 PM
1103650-005H	03/18/11 12:19 PM	03/24/11	03/24/11 3:50 PM	1103650-006H	03/18/11 12:01 PM	03/24/11	03/24/11 3:56 PM
1103650-008H	03/18/11 9:46 AM	03/24/11	03/24/11 4:02 PM	1103650-009H	03/18/11 10:21 AM	03/24/11	03/24/11 4:08 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation

% Recovery = $100 \cdot (\text{MS} - \text{Sample}) / (\text{Amount Spiked})$; RPD = $100 \cdot (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2)$.

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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 QA/QC Officer



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QC SUMMARY REPORT FOR SW8081A/8082

W.O. Sample Matrix: Water

QC Matrix Water

BatchID: 56958

WorkOrder 1103650

Analyte	EPA Method SW8081A/8082 Extraction SW3510C Spiked Sample ID: N/A									Acceptance Criteria (%)			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	MS / MSD	RPD	LCS/LCSD	RPD	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD					
Aldrin	N/A	0.50	N/A	N/A	N/A	118	120	2.28	N/A	N/A	70 - 130	30	
γ-BHC	N/A	0.50	N/A	N/A	N/A	96.9	98.4	1.45	N/A	N/A	70 - 130	30	
p,p-DDT	N/A	1.25	N/A	N/A	N/A	98.3	101	2.26	N/A	N/A	70 - 130	30	
Dieldrin	N/A	1.25	N/A	N/A	N/A	109	109	0	N/A	N/A	70 - 130	30	
Endrin	N/A	1.25	N/A	N/A	N/A	127	130	2.01	N/A	N/A	70 - 130	30	
Heptachlor	N/A	0.50	N/A	N/A	N/A	107	109	1.49	N/A	N/A	70 - 130	30	
%SS:	N/A	1.25	N/A	N/A	N/A	74	75	0.585	N/A	N/A	70 - 130	30	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 56958 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1103650-001C	03/18/11 11:15 AM	03/18/11	03/22/11 3:34 AM	1103650-002C	03/18/11 11:22 AM	03/18/11	03/21/11 10:03 PM
1103650-003C	03/18/11 12:59 PM	03/18/11	03/21/11 9:07 PM	1103650-004C	03/18/11 12:36 PM	03/18/11	03/21/11 8:10 PM
1103650-005C	03/18/11 12:19 PM	03/18/11	03/21/11 7:14 PM	1103650-006C	03/18/11 12:01 PM	03/18/11	03/21/11 6:17 PM
1103650-007C	03/18/11 11:41 AM	03/18/11	03/21/11 5:21 PM	1103650-008C	03/18/11 9:46 AM	03/18/11	03/21/11 4:25 PM
1103650-009C	03/18/11 10:21 AM	03/18/11	03/21/11 3:29 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation

% Recovery = $100 \cdot (\text{MS} - \text{Sample}) / (\text{Amount Spiked})$; RPD = $100 \cdot (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2)$

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery

N/A = not enough sample to perform matrix spike and matrix spike duplicate

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QA/QC Officer



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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID 57034 WorkOrder 1103650

Table with columns: EPA Method SW8015B, Extraction SW3510C, Spiked Sample ID: N/A, Analyte, Sample, Spiked, MS, MSD, MS-MSD, LCS, LCSD, LCS-LCSD, Acceptance Criteria (%). Includes rows for TPIL-Diesel (C10-C23) and %SS.

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 57034 SUMMARY

Summary table with columns: Lab ID, Date Sampled, Date Extracted, Date Analyzed. Lists multiple samples and their analysis dates.

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate, RPD = Relative Percent Deviation
% Recovery = 100 * (MS - Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2)
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery
N/A = not enough sample to perform matrix spike and matrix spike duplicate
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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Signature QA/QC Officer



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QC SUMMARY REPORT FOR E1664A

W O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57045

WorkOrder 1103650

EPA Method E1664A		Extraction E1664A							Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
HEM	N/A	20.83	N/A	N/A	N/A	93.5	96.4	3.04	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 57045 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1103650-001F	03/18/11 11:15 AM	03/24/11	03/25/11 1:35 PM	1103650-002F	03/18/11 11:22 AM	03/24/11	03/25/11 1:40 PM
1103650-003F	03/18/11 12:59 PM	03/24/11	03/25/11 1:45 PM	1103650-004F	03/18/11 12:36 PM	03/24/11	03/25/11 1:50 PM
1103650-005F	03/18/11 12:19 PM	03/24/11	03/25/11 1:55 PM	1103650-006F	03/18/11 12:01 PM	03/24/11	03/25/11 2:00 PM
1103650-007F	03/18/11 11:41 AM	03/24/11	03/25/11 2:05 PM	1103650-008F	03/18/11 9:46 AM	03/24/11	03/25/11 2:10 PM
1103650-009F	03/18/11 10:21 AM	03/24/11	03/25/11 2:15 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation
 % Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2)
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 N/A = not enough sample to perform matrix spike and matrix spike duplicate therefore unable to comply with method.
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QA/QC Officer

QC SUMMARY REPORT FOR E200.7

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 57056 WorkOrder: 1103850

EPA Method E200.7	Extraction E200.7								Spiked Sample ID: 1103423-008A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec	% Rec	% RPD	% Rec	% Rec	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aluminum	60	1000	87.5	87.5	0	90.7	87.1	4.07	70 - 130	20	85 - 115	20
Iron	ND	1000	94.4	95.7	1.33	97.5	94.1	3.47	70 - 130	20	85 - 115	20
%SS	101	750	91	88	3.78	91	89	2.19	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 57056 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1103650-0011	03/18/11 11:15 AM	03/18/11	03/22/11 4:19 PM	1103650-0021	03/18/11 11:22 AM	03/18/11	03/22/11 4:22 PM
1103650-0031	03/18/11 12:59 PM	03/18/11	03/22/11 4:25 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation

% Recovery = $100 \cdot (\text{MS} - \text{Sample}) / (\text{Amount Spiked})$; RPD = $100 \cdot (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2)$

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogeneous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery

N/A = not applicable to this method

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content

DHS ELAP Certification 1644

 QA/QC Officer

QC SUMMARY REPORT FOR E200.7

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 57060 WorkOrder 1103850

EPA Method E200.7	Extraction E200.7								Spiked Sample ID: 1103423-009A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aluminum	55	1000	92.4	89.7	2.76	87.5	86.5	1.24	70 - 130	20	85 - 115	20
Iron	ND	1000	93.7	91.8	1.99	94.3	93	1.37	70 - 130	20	85 - 115	20
%SS:	92	750	92	89	3.02	91	87	4.46	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 57060 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1103650-0041	03/18/11 12:36 PM	03/18/11	03/22/11 4:28 PM	1103650-0051	03/18/11 12:19 PM	03/18/11	03/24/11 1:15 PM
1103650-0061	03/18/11 12:01 PM	03/18/11	03/22/11 3:44 PM	1103650-0071	03/18/11 11:41 AM	03/18/11	03/22/11 3:47 PM
1103650-0081	03/18/11 9:46 AM	03/18/11	03/22/11 3:50 PM	1103650-0091	03/18/11 10:21 AM	03/18/11	03/22/11 3:53 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$

* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery

N/A = not applicable to this method

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content

DHS ELAP Certification 1644

 QA/QC Officer

QC SUMMARY REPORT FOR SW8260B

W.O Sample Matrix: Water QC Matrix: Water BatchID: 57013 WorkOrder: 1103650

Analyte	Extraction SW5030B								Spiked Sample ID: 1103606-009b			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	10	82.5	81.8	0.860	76.5	74.6	2.51	70 - 130	30	70 - 130	30
Benzene	ND	10	104	105	1.59	96.7	91.6	5.43	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	92.9	87.8	5.56	80	79.3	0.816	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	105	107	1.77	97	92.4	4.91	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	98.2	97.5	0.661	88.2	87.1	1.17	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	92.2	91.3	1.08	85.4	83.4	2.31	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	110	111	1.53	102	95.6	6.07	70 - 130	30	70 - 130	30
Diiisopropyl ether (DIPE)	ND	10	89.5	89.3	0.173	84.1	80.2	4.69	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	92.9	92	0.963	87.6	84.4	3.75	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	104	103	0.798	96.4	94.4	2.03	70 - 130	30	70 - 130	30
Toluene	ND	10	99.8	101	1.27	92.2	87.6	5.16	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	102	104	1.45	95.2	89.6	6.03	70 - 130	30	70 - 130	30
%SS1:	83	25	79	79	0	80	79	0.759	70 - 130	30	70 - 130	30
%SS2:	97	25	80	81	1.09	81	81	0	70 - 130	30	70 - 130	30
%SS3:	88	2.5	83	82	1.86	81	83	3.06	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
 NONE

BATCH 57013 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1103650-001A	03/18/11 11:15 AM	03/21/11	03/21/11 1:04 PM	1103650-002A	03/18/11 11:22 AM	03/21/11	03/21/11 1:45 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation
 $\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked})$. $\text{RPD} = 100 * (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) * 2$.

MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery. The LCS and LCSD are spikes into a clean, known, similar matrix and they and the surrogate standards reflect the overall validity of their extraction batch. Our control limits are 70-130% recovery and a 30% RPD for the LCS-LCSD and for the Surrogate Standards.

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 QA/QC Officer



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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57058

WorkOrder: 1103850

Analyte	Extraction SW5030B								Spiked Sample ID: 1103650-009A			
	Sample µg/L	Spiked µg/L	MS % Rec	MSD % Rec.	MS-MSD % RPD	LCS % Rec.	LCSD % Rec.	LCS-LCSD % RPD	Acceptance Criteria (%)			
tert-Amyl methyl ether (TAME)	0.6	10	80.3	79.8	0.543	82.8	86.3	4.12	70 - 130	30	70 - 130	30
Benzene	ND	10	98.2	98.4	0.119	96.8	105	8.11	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	90.4	89.2	1.33	87.3	80.3	8.38	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	98.6	97.7	0.835	102	100	2.10	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	92.9	93.1	0.203	94.3	93.3	1.15	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	105	105	0	93.9	101	7.16	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	104	104	0	119	130	8.89	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	104	105	0.850	101	109	8.08	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	103	104	0.878	96.8	104	7.22	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	108	108	0	95	103	7.85	70 - 130	30	70 - 130	30
Toluene	ND	10	95.1	95.6	0.554	95.6	101	5.36	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	98.4	98.7	0.275	92.9	99.1	6.45	70 - 130	30	70 - 130	30
%SS1:	84	25	101	101	0	95	96	0.529	70 - 130	30	70 - 130	30
%SS2:	87	25	104	105	0.204	102	103	0.549	70 - 130	30	70 - 130	30
%SS3:	85	2.5	96	98	2.38	88	89	1.14	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 57058 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1103650-003A	03/18/11 12:59 PM	03/21/11	03/21/11 5:51 PM	1103650-004A	03/18/11 12:36 PM	03/22/11	03/22/11 12:22 AM
1103650-005A	03/18/11 12:19 PM	03/22/11	03/22/11 1:05 AM	1103650-006A	03/18/11 12:01 PM	03/22/11	03/22/11 1:49 AM
1103650-007A	03/18/11 11:41 AM	03/22/11	03/22/11 2:32 AM	1103650-008A	03/18/11 9:46 AM	03/22/11	03/22/11 3:14 AM
1103650-009A	03/18/11 10:21 AM	03/22/11	03/22/11 1:39 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$, $RPD = 100 * (MS - MSD) / (MS + MSD) * 2$

MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if a) the sample is inhomogeneous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery. The LCS and LCSD are spikes into a clean, known, similar matrix and they and the surrogate standards reflect the overall validity of their extraction batch. Our control limits are 70-130% recovery and a 30% RPD for the LCS-LCSD and for the Surrogate Standards.

DHS ELAP Certification 1644

 QA/QC Officer

QC SUMMARY REPORT FOR E200.8

W.O Sample Matrix: Water QC Matrix: Water BatchID: 57057 WorkOrder 1103650

EPA Method E200.8	Extraction E200.8								Spiked Sample ID: 1103423-009A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Copper	28	10	94.4	103	2.21	98.5	101	2.21	70 - 130	20	85 - 115	20
Lead	ND	10	101	99.2	1.58	94.9	95.3	0.442	70 - 130	20	85 - 115	20
Vanadium	3.1	10	102	102	0	96.1	96.3	0.208	70 - 130	20	85 - 115	20
Zinc	ND	100	101	101	0	97.4	98.1	0.737	70 - 130	20	85 - 115	20
%SS:	112	750	112	113	0.843	100	98	2.38	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
 NONE

BATCH 57057 SUMMARY

LabID	Date Sampled	Date Extracted	Date Analyzed	LabID	Date Sampled	Date Extracted	Date Analyzed
1103650-0011	03/18/11 11:15 AM	03/18/11	03/23/11 2:15 PM	1103650-0011	03/18/11 11:15 AM	03/18/11	03/24/11 11:12 PM
1103650-0021	03/18/11 11:22 AM	03/18/11	03/23/11 2:24 PM	1103650-0021	03/18/11 11:22 AM	03/18/11	03/24/11 11:21 PM
1103650-0031	03/18/11 12:59 PM	03/18/11	03/23/11 2:38 PM	1103650-0041	03/18/11 12:36 PM	03/18/11	03/23/11 2:47 PM
1103650-0061	03/18/11 12:01 PM	03/18/11	03/23/11 3:05 PM	1103650-0071	03/18/11 11:41 AM	03/18/11	03/23/11 3:14 PM
1103650-0081	03/18/11 9:46 AM	03/18/11	03/23/11 3:23 PM	1103650-0091	03/18/11 10:21 AM	03/18/11	03/23/11 3:32 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked})$; $\text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2)$
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery
 N/A = not applicable to this method.
 NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content

DIIS ELAP Certification 1644

 QA/QC Officer

QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: **Specific Conductivity** Matrix: **W** WorkOrder: **1103850**

Method Name: SM2510B		Units $\mu\text{mhos/cm @ 25}^\circ\text{C}$				BatchID: 57042
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
1103650-001E	98.3 @ 25.0°C	1	98.6 @ 25.0°C	1	0.345	<2
1103650-002E	88.2 @ 25.0°C	1	88.4 @ 25.0°C	1	0.26	<2
1103650-003E	247 @ 25.0°C	1	247 @ 25.0°C	1	0.121	<2

BATCH 57042 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1103650-001E	13/18/11 11:15 AM	03/23/11	13/23/11 11:10 AM	1103650-002E	13/18/11 11:22 AM	03/23/11	13/23/11 10:50 AM
1103650-003E	13/18/11 12:59 PM	03/23/11	13/23/11 10:00 AM				

Test Method: **Specific Conductivity** Matrix: **W** WorkOrder: **1103650**

Method Name: SM2510B		Units $\mu\text{mhos/cm @ 25}^\circ\text{C}$				BatchID: 57059
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	% RPD	Acceptance Criteria (%)
1103650-004E	140 @ 25.0°C	1	140 @ 25.0°C	1	0.429	<2
1103650-005E	64.4 @ 25.0°C	1	64.4 @ 25.0°C	1	0.0311	<2
1103650-006E	64.5 @ 25.0°C	1	64.2 @ 25.0°C	1	0.466	<2
1103650-007E	128 @ 25.0°C	1	128 @ 25.0°C	1	0.156	<2
1103650-008E	157 @ 25.0°C	1	157 @ 25.0°C	1	0.319	<2
1103650-009E	58.0 @ 25.0°C	1	58.0 @ 25.0°C	1	0.103	<2

BATCH 57059 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1103650-004E	13/18/11 12:36 PM	03/23/11	13/23/11 10:10 AM	1103650-005E	13/18/11 12:19 PM	03/23/11	13/23/11 11:20 AM
1103650-006E	13/18/11 12:01 PM	03/23/11	13/23/11 10:30 AM	1103650-007E	13/18/11 11:41 AM	03/23/11	13/23/11 11:00 AM
1103650-008E	03/18/11 9:46 AM	03/23/11	13/23/11 12:10 PM	1103650-009E	13/18/11 10:21 AM	03/23/11	13/23/11 10:40 AM

Dup = Duplicate; SD = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

$RPD = 100 * (\text{Sample} - \text{Duplicate}) / [(\text{Sample} + \text{Duplicate}) / 2]$

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.

DHS ELAP Certification 1644

 QA/QC Officer

QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: Total Suspended Solids

Matrix: W

Work Order: 1103650

Method Name: SM2540D		Units mg/L			BatchID: 57049	
Lab ID	Sample	DF	Dup / Ser. Dil.	DF	%RPD	Acceptance Criteria (%)
1103650-001D	222	10	224	10	0.897	<15
1103650-002D	516	20	516	20	0	<15
1103650-003D	420	20	394	20	6.39	<15
1103650-004D	88.0	10	90.0	10	2.25	<15
1103650-005D	72.0	5	74.0	5	2.74	<15
1103650-006D	18.0	2	18.4	2	2.2	<15
1103650-007D	12.2	1	12.4	2	1.63	<15
1103650-008D	9530	50	9490	50	0.421	<15
1103650-009D	31.0	5	30.0	5	3.28	<15

BATCH 57049 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1103650-001D	03/18/11 11:15 AM	03/21/11	03/21/11 8:50 PM	1103650-002D	03/18/11 11:22 AM	03/21/11	03/21/11 9:00 PM
1103650-003D	03/18/11	03/21/11	03/21/11 9:25 PM	1103650-004D	03/18/11 12:36 PM	03/21/11	03/21/11 9:35 PM
1103650-005D	03/18/11 12:19 PM	03/21/11	03/21/11 9:45 PM	1103650-006D	03/18/11 12:01 PM	03/21/11	03/21/11 9:55 PM
1103650-007D	03/18/11 11:41 AM	03/21/11	03/21/11 10:05 PM	1103650-008D	03/18/11 9:46 AM	03/21/11	03/21/11 10:15 PM
1103650-009D	03/18/11 10:21 AM	03/21/11	03/21/11 10:25 PM				

Dup = Duplicate; Ser Dil = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation

Precision = Absolute Value (Sample - Duplicate)

$RPD = 100 * (\text{Sample} - \text{Duplicate}) / ((\text{Sample} + \text{Duplicate}) / 2)$

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.

DHS ELAP Certification 1644

 QA/QC Officer

QC SUMMARY REPORT FOR E415.3

W.O Sample Matrix: Water

QC Matrix: Water

WorkOrder: 1103650

EPA Method E415.3		Extraction E415.3				BatchID: 57048			Spiked Sample ID: 1103654-001C				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/L	mg/L	% Rec.	% Rec.	% RPD	mg/L	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TOC	81	50	115	113	0.998	50	112	119	583	70 - 130	20	80 - 120	20
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE													

BATCH 57048 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1103650-001G	03/18/11 11:15 AM	03/21/11	03/21/11 6:04 PM	1103650-002G	03/18/11 11:22 AM	03/21/11	03/21/11 6:16 PM
1103650-003G	03/18/11 12:59 PM	03/21/11	03/21/11 6:29 PM	1103650-004G	03/18/11 12:36 PM	03/21/11	03/21/11 6:41 PM
1103650-005G	03/18/11 12:19 PM	03/21/11	03/21/11 6:53 PM	1103650-006G	03/18/11 12:01 PM	03/21/11	03/21/11 7:07 PM
1103650-007G	03/18/11 11:41 AM	03/21/11	03/21/11 7:21 PM	1103650-008G	03/18/11 9:46 AM	03/21/11	03/21/11 7:35 PM
1103650-009G	03/18/11 10:21 AM	03/21/11	03/21/11 7:47 PM				

MS = Matrix Spike, MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation
 % Recovery = $100 * (MS - Sample) / (Amount Spiked)$; $RPD = 100 * (MS - MSD) / ((MS + MSD) / 2)$
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery
 N/A = not applicable to this method.
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content

DIHS ELAP Certification 1644

 QA/QC Officer

**Laboratory Analytical Report
Discrete Samples
SW-6N, SW-6S
SW-7N, SW-7S
May 25, 2011**

 McC Campbell Analytical, Inc. "When Quality Counts"	1534 Willow Pines Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: msh@McCCampbell.com Telephone: 927-213-9263 Fax: 927-213-9269		
	Environmental Technical Services	Client Project ID: Levin Rich Term. Annual	Date Sampled: 05/25/11
	1548 Jacob Avenue		Date Received: 05/26/11
	San Jose, CA 95118	Client Contact: Helen Marchimney	Date Reported: 05/31/11
	Client P.O.: #TL 20943	Date Completed: 05/31/11	

WorkOrder: 1105830

May 31, 2011

Dear Helen:

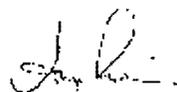
Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: Levin Rich Term. Annual,
- 2) A QC report for the above sample,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McC Campbell Analytical Laboratories for your analytical needs.

Best regards,



Angela Rydelius
 Laboratory Manager
 McC Campbell Analytical, Inc.

Page 1 of 6

McCampbell Analytical, Inc.

1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 232-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1105830

ClientCode: ETS

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-Flag

Report to:

Helen Mawhinney
Environmental Technical Services
1548 Jacob Avenue
San Jose, CA 95118
510-385-4308 FAX 510-622-6259

Email: HMawhinneyETS@aol.com
cc:
PO: #TL 20943
ProjectNo: Levin Rich Term. Annual

Bill to:

Helen Mawhinney
Environmental Technical Services
1548 Jacob Avenue
San Jose, CA 95118
HMawhinneyETS@aol.com

Requested TAT: 2 days

Date Received: 05/26/2011

Date Printed: 05/26/2011

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)																	
					1	2	3	4	5	6	7	8	9	10	11	12						
1105830-001	SW6 N	Water	5/25/2011 13:46	<input type="checkbox"/>	A																	

Test Legend:

1	8081PC8 W	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Ana Vezquez

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

Sample Receipt Checklist

Client Name: Environmental Technical Services	Date and Time Received: 5/26/2011 7:29:14 PM
Project Name: Lavin Rich Term. Annual	Checklist completed and reviewed by: Ana Venegas
WorkOrder N°: 1105830 Matrix: Water	Carrier: Rob Pringle (M&I Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp: 5.4°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Metal - pH acceptable upon receipt (pH < 2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

Client contacted: _____ Date contacted: _____ Contacted by: _____

Comments: _____

 McC Campbell Analytical, Inc. <small>"What's the Best Choice?"</small>		1534 Willow Pass Road, Pinole, CA 94965-1701 Web: www.mcccampbell.com E-mail: stein@mcccampbell.com Telephone: 877-253-0162 Fax: 925-252-0569	
Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: Levin Rich Term	Date Sampled: 05/25/11	
	Animal	Date Received: 05/26/11	
	Client Contact: Helen Mawhinney	Date Extracted: 05/26/11	
	Client P.O.: #YL 20943	Date Analyzed: 05/28/11	
Organochlorine Pesticides by GC-ECD (8080 Basic Target List) + PCBs*			
Extraction Method: SW3510C		Analytical Method: SW8081A.0202	
Work Order: 1105830			
Lab ID	1105830-001A	Reporting Limit for DF=1	
Client ID	SW6 N		
Matrix	W		
DF	1		
Compound	Concentration		ppb/g
			ppb/L
Aldrin	ND		NA 0.005
<i>α</i> -BHC	ND		NA 0.01
<i>β</i> -BHC	ND		NA 0.005
<i>γ</i> -BHC	ND		NA 0.001
<i>δ</i> -BHC	ND		NA 0.02
<i>α</i> -Chlordane (Technical)	ND		NA 0.1
<i>α</i> -Chlordane	ND		NA 0.05
<i>γ</i> -Chlordane	ND		NA 0.05
<i>o,p'</i> -DDD	ND		NA 0.01
<i>o,p'</i> -DDT	ND		NA 0.01
<i>p,p'</i> -DDT	0.10		NA 0.01
Dieldrin	ND		NA 0.01
Endosulfan I	ND		NA 0.02
Endosulfan II	ND		NA 0.02
Endosulfan sulfate	ND		NA 0.05
Endrin	ND		NA 0.01
Endrin aldehyde	ND		NA 0.05
Endrin ketone	ND		NA 0.05
Heptachlor	ND		NA 0.01
Heptachlor epoxide	ND		NA 0.01
Hexachlorobenzene	ND		NA 0.5
Hexachlorocyclopentadiene	ND		NA 1.0
Methoxychlor	ND		NA 0.1
Toxaphene	ND		NA 0.5
Aroclor 1016	ND		NA 0.5
Aroclor 1221	ND		NA 0.5
Aroclor 1232	ND		NA 0.5
Aroclor 1242	ND		NA 0.5
Aroclor 1248	ND		NA 0.5
Aroclor 1254	ND		NA 0.5
Aroclor 1260	ND		NA 0.5
PCBs, total	ND		NA 0.5
Surrogate Recoveries (%)			
%SS:	116		
Comments			
* water samples in ppb/L, soil/sediment/solid samples in mg/kg, wipe samples in ppb/wipe, filter samples in ppb/filter, production/water-sequence liquid samples and all TCLP & SPLP extracts are reported in mg/L.			
ND means not detected above the reporting limit/method detection limit; N/A means analysis not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor.			
# surrogate diluted out of range or surrogate coelutes with another peak.			

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Angela Rydelius, Lab Manager

Page 5 of 6



McC Campbell Analytical, Inc.

"When One In Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: info@mcccampbell.com
Telephone: 925-252-2162 Fax: 925-252-2269

QC SUMMARY REPORT FOR SW8081A/8082

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 58592

WorkOrder: 1105830

Analyte	Extraction SW3510C									Spiked Sample ID: N/A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)				
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCSLCSD	RPD	
Aldrin	N/A	0.50	N/A	N/A	N/A	81.6	84	2.88	N/A	N/A	70 - 130	30	
p-BHC	N/A	0.50	N/A	N/A	N/A	82.2	80	2.74	N/A	N/A	70 - 130	30	
p,p-DDT	N/A	1.25	N/A	N/A	N/A	83.5	80.4	3.87	N/A	N/A	70 - 130	30	
Dieldrin	N/A	1.25	N/A	N/A	N/A	113	113	0	N/A	N/A	70 - 130	30	
Endrin	N/A	1.25	N/A	N/A	N/A	78.3	78	0.367	N/A	N/A	70 - 130	30	
Heptachlor	N/A	0.50	N/A	N/A	N/A	93	91.1	2.05	N/A	N/A	70 - 130	30	
NESS	N/A	1.25	N/A	N/A	N/A	102	103	0.736	N/A	N/A	70 - 130	30	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL, with the following exceptions:
NONE

BATCH 58592 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1103830-001A	03/23/11 1:46 PM	03/26/11	03/28/11 7:35 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked})$; $\text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2)$.

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogeneous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

 McC Campbell Analytical, Inc. "When Quality Counts"	1534 Willow Park Road, Pinburg, CA 94563-1701 Web: www.mcccampbell.com E-mail: ms@mcampbell.com Telephone: 925-232-8262 Fax: 925-252-0269	
	Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: #TL 20943; Levin Rich Term. Annual Client Contact: Helen Mawhinney Client P.O.:

WorkOrder: 1105834

May 31, 2011

Dear Helen:

Enclosed within are:

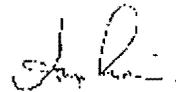
- 1) The results of the 1 analyzed sample from your project: #TL 20943; Levin Rich Term. Annual,
- 2) A QC report for the above sample,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,



Angela Rydelius
 Laboratory Manager
 McC Campbell Analytical, Inc.

1105884



CHAIN OF CUSTODY

Laboratory: 2105 Lundy Ave., San Jose, CA 95131
 Phone (408) 584-0200 Fax: (408) 278-2001
 State Storage Center: 17465 Von Karman Ave., Suite 112, Irvine, CA 92614
 Phone: (949) 250-0900

Client/Reporter Information		Project Information		Requester/Analyst		Analysis Cases	
Company Name: ENVIRON TEST SERVICES Address: 1548 CAROL AVE City: SAN JOSE CA 95118 Project Contact: HELEN M Phone: 931 736-9221 Sample ID: HELEN M - 1047		Project Name: Levin Rich Town Annual Street: 402 Walnut Ave (CR) City: Richmond CA 94804 Project: TL 20943 Email: hannahmjets@aol.com		Requester: HELEN M Analyst: HELEN M Date: 12/11/11		Analysis Cases: <input type="checkbox"/> SW Ground Water <input type="checkbox"/> SW Surface Water <input type="checkbox"/> SO G <input type="checkbox"/> D-3 <input type="checkbox"/> Air Vols <input type="checkbox"/> LO - Suspended Solids <input type="checkbox"/> Air <input type="checkbox"/> DR - Surface Water (Residence Unit) <input type="checkbox"/> LAR USB ONLY	
Sample ID / Field Point / Point of Collection: SW6 S Date: 12/11/11 Time: 11:00		Collected by: HMT Mark: W # of Bottles: 2		Number of preserved bottles: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		Analysis Cases: <input checked="" type="checkbox"/> SW Ground Water <input checked="" type="checkbox"/> SW Surface Water <input checked="" type="checkbox"/> SO G <input checked="" type="checkbox"/> D-3 <input checked="" type="checkbox"/> Air Vols <input checked="" type="checkbox"/> LO - Suspended Solids <input checked="" type="checkbox"/> Air <input checked="" type="checkbox"/> DR - Surface Water (Residence Unit) <input checked="" type="checkbox"/> LAR USB ONLY	
<input type="checkbox"/> Standard LAT (5 Business Days) <input type="checkbox"/> 18 Day (analytical dependent) <input type="checkbox"/> 5 Day (Microbial dependent) <input type="checkbox"/> 3 Day (12% meth g) <input type="checkbox"/> 3 Day (12% meth g) <input type="checkbox"/> 1 Day (25% meth g) <input type="checkbox"/> Same Day (100% meth g)		Approved By / Date: _____ <input type="checkbox"/> Commercial "A" - Regulatory only <input type="checkbox"/> Commercial "B" - People with GC summaries <input type="checkbox"/> Commercial "B+" - Health, QIC, and chronic diseases <input type="checkbox"/> PUBLIC - Law - 1 day analysis <input type="checkbox"/> MSF for Oestrogen <input type="checkbox"/> ESD Panel Provide BCF Global ID: _____ Provide PPT (agency): _____		Appropriate for: Al, Cu, Fe, Pb, Zn, Vn Pesticides / PCBs on GEL Results by Sunday 12/11/11 or see immediately		Emergency TIA data available VIA Lablink Sample Custody must be documented below each time someone changes possession, including courier delivery	
Date Rec'd: 12/11/11 Date Used: 12/11/11 Date Test: 12/11/11		Received by: HELEN M Received by: HELEN M Received by: HELEN M		Date Rec'd: 12/11/11 Date Used: 12/11/11 Date Test: 12/11/11		Received by: HELEN M Received by: HELEN M Received by: HELEN M	

McCampbell Analytical, Inc.



1534 Willow Past Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1105834

ClientCode: EYS

WaterFirst WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Report to:

Helen Mawhinney
 Environmental Technical Services
 1548 Jacob Avenue
 San Jose, CA 95118
 510-385-4308 FAX 510-522-6259

Email: HMawhinneyETS@aol.com
 cc:
 PQ:
 ProjectNo: #TL 20943; Levin Rich Term. Annual

Bill to:

Helen Mawhinney
 Environmental Technical Services
 1548 Jacob Avenue
 San Jose, CA 95118
 HMawhinneyETS@aol.com

Requested TAT: 2 days

Date Received: 05/26/2011

Date Printed: 05/26/2011

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)																		
					1	2	3	4	5	6	7	8	9	10	11	12							
1105834-001	SW6 S	Water	5/25/2011 13:00	<input type="checkbox"/>	A																		

Test Legend:

1	6081PCB W	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Ana Venegas

Comments: 48hr rush

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.

Sample Receipt Checklist

Client Name: **Environmental Technical Services** Date and Time Received: **5/26/2011 7:45:01 PM**
 Project Name: **#TL 20943; Levin Rich Term. Annual** Checklist completed and reviewed by: **Ana Venegas**
 WorkOrder N°: **1105834** Matrix: **Water** Carrier: **Rob Private (M&L Courier)**

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp: 3.6°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bobbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Metal - pH acceptable upon receipt (pH < 2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: **WET ICE**)

* NOTE: If the "No" box is checked, see comments below.

Client contacted: _____ Date contacted: _____ Contacted by: _____

Comments: _____



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"When Quality Counts"

1334 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: pmr@mcampbell.com
Telephone: 925-252-9262 Fax: 925-252-9269

Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: #TL 20943, Levin Rich Term. Annual	Date Sampled: 05/25/11
	Client Contact: Helen Marwinney	Date Received: 05/26/11
	Client P.O.:	Date Extracted: 05/26/11
		Date Analyzed: 05/28/11

Organochlorine Pesticides by GC-ECD (8080 Basic Target List) + PCBs*

Estimation Method: SW3510C

Analytical Method: SW8081A/8082

Work Order: 1105834

Lab ID	1105834-001A				Reporting Limit for DF=1	
Client ID	SW6 S				S	W
Matrix	W					
DF	1					
Compound	Concentration			µg/kg	µg/L	
Aldrin	ND			NA	0.005	
α-BHC	ND			NA	0.01	
β-BHC	ND			NA	0.005	
γ-BHC	ND			NA	0.005	
Chlordane (Technical)	ND			NA	0.1	
p-Chlordane	ND			NA	0.05	
m-Chlordane	ND			NA	0.05	
p,p'-DDD	ND			NA	0.01	
p,p'-DDE	ND			NA	0.01	
p,p'-DDT	0.17			NA	0.01	
Dieldrin	ND			NA	0.01	
Endosulfan I	ND			NA	0.02	
Endosulfan II	ND			NA	0.02	
Endosulfan sulfate	ND			NA	0.01	
Endrin	ND			NA	0.01	
Endrin aldehyde	ND			NA	0.01	
Endrin ketone	ND			NA	0.01	
Heptachlor	ND			NA	0.01	
Heptachlor epoxide	ND			NA	0.01	
Heptachlorobenzene	ND			NA	0.1	
Heptachlorocyclopentadiene	ND			NA	1.0	
Methoxychlor	ND			NA	0.1	
Texaphene	ND			NA	0.5	
Aroclor 1016	ND			NA	0.5	
Aroclor 1221	ND			NA	0.5	
Aroclor 1232	ND			NA	0.5	
Aroclor 1242	ND			NA	0.5	
Aroclor 1248	ND			NA	0.5	
Aroclor 1254	ND			NA	0.5	
Aroclor 1260	ND			NA	0.5	
PCBs, total	ND			NA	0.5	

Surrogate Recoveries (%)

%SS:	116					
------	-----	--	--	--	--	--

Comments

* water samples in µg/L, soil/sediment/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/chem-equivalent liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor.

surrogate diluted out of range or surrogate coelutes with another peak.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

Page 5 of 6



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Web: www.mcccampbell.com E-mail: mca@mcccampbell.com
Telephone: 927-292-2262 Fax: 925-392-9269

QC SUMMARY REPORT FOR SW8081A/8082

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 58592

WorkOrder 1105834

Analyte	EPA Method SW8081A/8082			Extraction SW3510C						Spiked Sample ID: N/A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)				
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD	
Aldrin	N/A	0.50	N/A	N/A	N/A	81.6	84	2.88	N/A	N/A	70 - 130	30	
p-BHC	N/A	0.50	N/A	N/A	N/A	82.2	80	2.74	N/A	N/A	70 - 130	30	
p,p'-DDT	N/A	1.25	N/A	N/A	N/A	83.5	80.4	3.87	N/A	N/A	70 - 130	30	
Dieldrin	N/A	1.25	N/A	N/A	N/A	113	113	0	N/A	N/A	70 - 130	30	
Endrin	N/A	1.25	N/A	N/A	N/A	78.3	78	0.387	N/A	N/A	70 - 130	30	
Heptachlor	N/A	0.50	N/A	N/A	N/A	93	91.1	2.05	N/A	N/A	70 - 130	30	
ΣHCH	N/A	1.25	N/A	N/A	N/A	102	105	0.736	N/A	N/A	70 - 130	30	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 58592 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1105834-001A	05/23/11 1:40 PM	05/26/11	05/28/11 8:29 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 \cdot (\text{MS} - \text{Sample}) / (\text{Amount Spiked})$; $\text{RPD} = 100 \cdot (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) / 2$.
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogeneous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS RLAP Certification 1644

[Signature]
QA/QC Officer

 McC Campbell Analytical, Inc. <small>"When Quality Counts"</small>		1534 Willow Park Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: ms@mcccampbell.com Telephone: 927-232-0262 Fax: 925-232-0269	
Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: #TL 20943; Levin Rich Term Annual	Date Sampled: 05/25/11	
	Client Contact: Helen Mawhinney	Date Received: 05/26/11	
	Client P.O.:	Date Reported: 05/31/11	
		Date Completed: 05/31/11	

WorkOrder: 1105835

May 31, 2011

Dear Helen:

Enclosed within are:

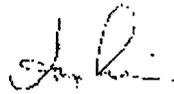
- 1) The results of the 1 analyzed sample from your project: #TL 20943; Levin Rich Term Annual,
- 2) A QC report for the above sample,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,



Angela Rydelius
 Laboratory Manager
 McC Campbell Analytical, Inc.

Cost Center

DELUXE COPY 11830 J28 13001 www.terms.com

Mc Campbell #6047 alone

Use only with the
PURCHASE ORDER

PURCHASE ORDER

LEVIN RICHMOND TERMINAL CORP

20943

DATE: 5/15/11 REQUISITION NO.: 900-0120-740

SHIP TO: TOM LEPPER / HELLER / MOUNTAIN VIEW

TO: McCampbell Analytical

REQUISITIONED BY	WHEN SHIP	SHIP VIA	P.O.B. POINT	TERMS	
f. MOUNTAIN VIEW	5/27				
QTY. ORDERED	QTY. RECEIVED	STOCK NO	DESCRIPTION	UNIT PRICE	TOTAL
1			SAMPLE FROM SW 6 S		
1			SAMPLE FROM SW 7 S		
1			SAMPLE FROM SW 6 N		
1			SAMPLE FROM SW 7 N		
			OK TO PAY		

Please send copies of your invoice.
 Order is to be entered in accordance with price
 survey and representative shows specs.
 Notify us immediately if you are unable to ship
 as specified.

7.

T. [Signature]
 AUTHORIZED BY

McCampbell Analytical, Inc.

 1334 Willow Park Rd
Pittsburg, CA 94565-1701
(925) 232-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1105835

ClientCode: ETS

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty H-Haq

Report to:

Helen Mawhinney
Environmental Technical Services
1548 Jacob Avenue
San Jose, CA 95118
510-385-4308 FAX 510-622-6259

Email: HMawhinneyETS@aol.com
cc:
PO:
ProjectNo: #TL 20043; Levin Rich Term. Annual

Bill to:

Helen Mawhinney
Environmental Technical Services
1548 Jacob Avenue
San Jose, CA 95118
HMawhinneyETS@aol.com

Requested TAT: 2 days

Date Received: 05/26/2011

Date Printed: 05/26/2011

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)																		
					1	2	3	4	5	6	7	8	9	10	11	12							
1105835-001	SW7 N	Water	5/25/2011 13:17	<input type="checkbox"/>	A																		

Test Legend:

1	8081PCB W	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Ana Venegas

Comments: 48hr rush

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

Sample Receipt Checklist

Client Name: **Environmental Technical Services** Date and Time Received: **5/26/2011 7:48:27 PM**
Project Name: **#TL 20943; Levin Rich Term. Annual** Checklist completed and reviewed by: **Ana Venegas**
WorkOrder #: **1105835** Matrix: **Water** Carrier: **Rob Prince (MAI Courier)**

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp: 3.2°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Metal - pH acceptable upon receipt (pH=2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

Client contacted: _____ Date contacted: _____ Contacted by: _____

Comments: _____

 McC Campbell Analytical, Inc. "When Quality Counts"		1534 Willow Pass Road, Pinburg, CA 94963-1701 Web: www.mcccampbell.com E-mail: mzin@mcccampbell.com Telephone: 925-252-6262 Fax: 925-252-6269	
Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118		Client Project ID: #TL 20943; Levin Rich Term, Annual Client Contact: Helen Mawhinney Client P.O.:	
		Date Sampled: 05/25/11 Date Received: 05/26/11 Date Extracted: 05/26/11 Date Analyzed: 05/28/11	
Organochlorine Pesticides by GC-ECD (8080 Basis Target List) + PCBs*			
Extraction Method: SW3210C		Analytical Method: SW8081A/8082	
		Work Order: 1105835	
Lab ID	1105835-001A		
Client ID	SW7 N		
Matrix	W		
DF	1		
		Reporting Limit for DF=1	
		S	W
Compound	Concentration	ppb/kg	ppb/L
Aldrin	ND	NA	0.001
α-BHC	ND	NA	0.01
β-BHC	ND	NA	0.001
δ-BHC	ND	NA	0.001
γ-BHC	ND	NA	0.02
Chlordane (Technical)	ND	NA	0.1
α-Chlordane	ND	NA	0.01
γ-Chlordane	ND	NA	0.01
o,p'-DDD	ND	NA	0.01
p,p'-DDD	ND	NA	0.01
o,p'-DDT	ND	NA	0.01
Dieldrin	ND	NA	0.01
Endosulfan I	ND	NA	0.02
Endosulfan II	ND	NA	0.02
Endosulfan sulfate	ND	NA	0.01
Ethion	ND	NA	0.01
Ethion sulfate	ND	NA	0.01
Ethion ketone	ND	NA	0.01
Heptachlor	ND	NA	0.01
Heptachlor epoxide	ND	NA	0.01
Heptachlorobenzene	ND	NA	0.1
Heptachlorocyclohexadiene	ND	NA	1.0
Methoxychlor	ND	NA	0.1
Tempalone	ND	NA	0.1
Aroclor 1016	ND	NA	0.1
Aroclor 1221	ND	NA	0.1
Aroclor 1232	ND	NA	0.1
Aroclor 1242	ND	NA	0.1
Aroclor 1248	ND	NA	0.1
Aroclor 1254	ND	NA	0.1
Aroclor 1260	ND	NA	0.1
PCBs, total	ND	NA	0.1
Surrogate Recoveries (%)			
%SS:	106		
Comments			
* water samples in µg/L, soil/sediment/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, production/water-exposed liquid samples and all TCLP & SFLP extracts are reported in mg/L.			
ND means not detected above the reporting limit/method detection limit, N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor.			
† surrogate diluted out of range or surrogate coeluted with another peak.			

DHS ELAP Certification 1644

 Angela Rydelius, Lab Manager

Page 6 of 7



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Park Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: cwin@mcccampbell.com
Telephone: 927-232-9252 Fax: 925-232-9269

QC SUMMARY REPORT FOR SW8081A/8082

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 58592 WorkOrder: 1105835

Analyte	Extraction SW3510C									Spiked Sample ID: N/A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)				
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD	
Aldrin	N/A	0.50	N/A	N/A	N/A	81.6	84	2.88	N/A	N/A	70 - 130	30	
p-BHC	N/A	0.50	N/A	N/A	N/A	82.2	80	2.74	N/A	N/A	70 - 130	30	
p,p-DDT	N/A	1.25	N/A	N/A	N/A	83.3	80.4	3.87	N/A	N/A	70 - 130	30	
Dieldrin	N/A	1.25	N/A	N/A	N/A	113	113	0	N/A	N/A	70 - 130	30	
Endrin	N/A	1.25	N/A	N/A	N/A	78.3	78	0.387	N/A	N/A	70 - 130	30	
Heptachlor	N/A	0.50	N/A	N/A	N/A	93	91.1	2.03	N/A	N/A	70 - 130	30	
%SS:	N/A	1.25	N/A	N/A	N/A	102	103	0.736	N/A	N/A	70 - 130	30	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 58592 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1105835-001A	03/23/11 1:17 PM	03/26/11	03/28/11 9:24 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogeneous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS BLAP Certification 1644

[Signature]
QA/QC Officer

 McC Campbell Analytical, Inc. "When Quality Counts"		1534 Willow Pass Road, Pinburg, CA 94363-1701 Web: www.mcccampbell.com E-mail: info@mcccampbell.com Telephone: 927-353-0263 Fax: 925-252-0269	
Environmental Technical Services 1548 Jacob Avenue San Jose, CA 95118	Client Project ID: # TL 20943; Levin Rich Term Annual	Date Sampled: 05/25/11	
	Client Contact: Helen Marwhimney	Date Received: 05/26/11	
	Client P.O.:	Date Reported: 05/31/11	
		Date Completed: 05/31/11	

WorkOrder: 1105832

May 31, 2011

Dear Helen:

Enclosed within are:

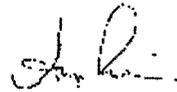
- 1) The results of the 1 analyzed sample from your project: # TL 20943; Levin Rich Term Annual,
- 2) A QC report for the above sample,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,



Angela Rydelius
 Laboratory Manager
 McC Campbell Analytical, Inc.



ACCUTEST

Laboratories - Northern California

RUSH!

CHAIN OF CUSTODY

Laboratory: 2100 Lundy Ave., Ste. 200, CA 94511
Phone: (408) 644-0200 Fax: (408) 588-0201
In-House Service Center: 17165 Van Kaman Ave., Suite 112, Irvine, CA 92614
Phone: (949) 250-2000

1105892

Client Reporting Information		Project Information		Requested Analysis		Matrix Codes	
Company Name: ENVIRON TECH SERVICES		Project Name: Levin Rich Term Annual		Matrix Code: WA - Wet/Wet		Matrix Code: One-Checked Water	
Address: 1348 Tabor Ave		Site: 402 Wright Ave (LRT)		Matrix Code: SO - Soil		Matrix Code: CR - Crystals	
City: SAN JOSE CA 95118		City: RICHMOND CA 94804		Matrix Code: LIQ - Non-aqueous liq. oil		Matrix Code: AIR	
Project Contact: Helen M		Project #: TL 20943		Matrix Code: ORA - Drinking water (Treatable)		Matrix Code: LAB USE ONLY	
Phone: 931 236-9221		E-MAIL: hmmawhian@ets.com		Matrix Code: LAB USE ONLY		Matrix Code: LAB USE ONLY	
Sample's Name: Helen M - 1047		Client Purchase Order #		Matrix Code: LAB USE ONLY		Matrix Code: LAB USE ONLY	
Acquiesce ID		Collection		Number of preserved bottles		Matrix Code: LAB USE ONLY	
Sample ID / Field Point / Point of Collection		Date		Time		Matrix Code: LAB USE ONLY	
3W7-5		5/25/11		1354		Matrix Code: LAB USE ONLY	
Turnaround Time (Business days)		Date (Shipable collection)		Containers / Remarks		Matrix Code: LAB USE ONLY	
Standard TAT 16 Business Days		Approved By/Date:		<input type="checkbox"/> Commercial "A" - Residue only <input type="checkbox"/> Commercial "D" - Residue with GC biomarkers <input type="checkbox"/> Commercial "B" - Residue, GC, and chromatograms <input type="checkbox"/> FULLY - Level 4 data package <input type="checkbox"/> EDF for GC/MS/MS <input type="checkbox"/> EDF Final Provide EDF ID: _____ Provide EDF Legend: _____		Metals Al, Cu, Fe, Pb, Zn, V, Ni Pesticides / PCBs Asbestos Residuals	
Emergency T/A data available VIA Lablink		Sample Custody must be documented below each time samples change possession, including courier delivery.		<input type="checkbox"/> Commercial "A" - Residue only <input type="checkbox"/> Commercial "D" - Residue with GC biomarkers <input type="checkbox"/> Commercial "B" - Residue, GC, and chromatograms <input type="checkbox"/> FULLY - Level 4 data package <input type="checkbox"/> EDF for GC/MS/MS <input type="checkbox"/> EDF Final Provide EDF ID: _____ Provide EDF Legend: _____		Metals Al, Cu, Fe, Pb, Zn, V, Ni Pesticides / PCBs Asbestos Residuals	
Authorized by:		Date:		Signature:		Date:	
[Signature]		5-25-11		[Signature]		5/25/11 1320	
Approved by:		Date:		Signature:		Date:	
[Signature]		5/25/11		[Signature]		5/25/11	
Relinquished to:		Date:		Signature:		Date:	
[Signature]		5/25/11		[Signature]		5/25/11	

McCampbell Analytical, Inc.

1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1105832

ClientCode: EIS

WaterTest WriteOn EDF Excel Fax Email HardCopy ThirdParty H-Haq

Report to:

Helen Mawhinney
Environmental Technical Services
1548 Jacob Avenue
San Jose, CA 95118
510-385-4308 FAX: 510-522-6259

Email: HMawhinneyETS@aol.com
cc:
PO:
Project No # TL 20943; Levin Rich Term. Annual

Bill to:

Helen Mawhinney
Environmental Technical Services
1548 Jacob Avenue
San Jose, CA 95118
HMawhinneyETS@aol.com

Requested TAT: 2 days

Date Received: 05/26/2011

Date Printed: 05/31/2011

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)																	
					1	2	3	4	5	6	7	8	9	10	11	12						
1105832-001	SW7-S	Water	5/25/2011 13:24	<input type="checkbox"/>	A																	

Test Legend:

1	8081PCB W	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Ana Venegas

Comments: 48hr rush

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

Sample Receipt Checklist

Client Name: **Environmental Technical Services** Date and Time Received: **5/26/2011 7:36:13 PM**
 Project Name: **# TL 20943; Lovin Rich Term. Annual** Checklist completed and reviewed by: **Ana Venegas**
 Work Order N°: **1105832** Matrix: **Water** Center: **Rob Prince (MAL Courted)**

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Block temperature	Cooler Temp: 3.2°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: **WET ICE**)

* NOTE: If the "No" box is checked, see comments below.

Client contacted: _____ Date contacted: _____ Contacted by: _____

Comments: _____



McC Campbell Analytical, Inc.

"Where Quality Counts"

1534 Willow Park Road, Folsom, CA 95635-1701
Web: www.mcccampbell.com E-mail: mca@mcccampbell.com
Telephone: 916-252-0162 Fax: 916-252-9269

Environmental Technical Services		Client Project ID: #TL 20943; Levin Rich Term. Annual		Date Sampled: 05/25/11	
1548 Jacob Avenue		Client Contact: Helen Mawhinney		Date Received: 05/26/11	
San Jose, CA 95118		Client P.O.:		Date Analyzed: 05/28/11	
Organochlorine Pesticides by GC-ECD (8080 Basic Target List) + PCBs*					
Extraction Method: SW3510C		Analytical Method: SW8061A/2062		Work Order: 1105832	
Lab ID	1105832-001A			Reporting Limit for DF=1	
Client ID	SW7-S				
Matrix	W			S	W
DF	1				
Compound	Concentration			µg/g	µg/L
Albin	ND			NA	0.005
a-BHC	ND			NA	0.01
b-BHC	ND			NA	0.005
g-BHC	ND			NA	0.005
d-BHC	ND			NA	0.02
Chlordane (Technical)	ND			NA	0.1
a-Chlordane	ND			NA	0.05
g-Chlordane	ND			NA	0.05
p,p'-DDD	ND			NA	0.01
p,p'-DDE	ND			NA	0.01
p,p'-DDT	ND			NA	0.01
Dieldrin	0.029			NA	0.01
Endosulfan I	ND			NA	0.02
Endosulfan II	ND			NA	0.02
Endosulfan sulfate	ND			NA	0.05
Endrin	ND			NA	0.01
Endrin sulfate	ND			NA	0.05
Endrin ketone	ND			NA	0.01
Heptachlor	ND			NA	0.01
Heptachlor epoxide	ND			NA	0.01
Hexachlorobenzene	ND			NA	0.5
Hexachlorocyclopentadiene	ND			NA	1.0
Methoxychlor	ND			NA	0.5
Toxaphene	ND			NA	0.5
Aroclor 1016	ND			NA	0.5
Aroclor 1221	ND			NA	0.5
Aroclor 1232	ND			NA	0.5
Aroclor 1242	ND			NA	0.5
Aroclor 1248	ND			NA	0.5
Aroclor 1254	ND			NA	0.5
Aroclor 1260	ND			NA	0.5
PCBs total	ND			NA	0.5
Surrogate Recoveries (%)					
%SS:	107				
Comments					
* water samples in µg/L, soil/sediment/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/air/vapor-exposed liquid samples and all TCLP & SPLP extracts are reported in mg/L.					
ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor.					
# surrogate diluted out of range or surrogate coelutes with another peak.					

DHS RIAP Certification 1644

Angela Rydelius, Lab Manager



McC Campbell Analytical, Inc.

"We're Quality Conscious"

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Web: www.mcccampbell.com E-mail: info@mcccampbell.com

Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8081A/8082

W.O. Sample Matrix: Water

QC Matrix: Water

Batch ID: 58592

Work Order: 1105832

Analyte	EPA Method SW8081A/8082		Extraction SW8516C						Spiked Sample ID: N/A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Aldrin	N/A	0.50	N/A	N/A	N/A	81.6	84	2.88	N/A	N/A	70 - 130	30
p-BHC	N/A	0.50	N/A	N/A	N/A	82.2	80	2.74	N/A	N/A	70 - 130	30
p,p-DDT	N/A	1.23	N/A	N/A	N/A	83.5	80.4	3.87	N/A	N/A	70 - 130	30
Dieldrin	N/A	1.25	N/A	N/A	N/A	113	113	0	N/A	N/A	70 - 130	30
Endrin	N/A	1.25	N/A	N/A	N/A	78.3	78	0.387	N/A	N/A	70 - 130	30
Heptachlor	N/A	0.50	N/A	N/A	N/A	93	91.1	2.03	N/A	N/A	70 - 130	30
%SS:	N/A	1.23	N/A	N/A	N/A	102	103	0.736	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL, with the following exceptions:
NONE

BATCH 58592 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1105832-001A	05/25/11 1:24 PM	05/26/11	05/28/11 10:19 AM				

MSI = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 % Recovery = 100 * (MS + Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / (MS + MSD) / 2.
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogeneous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QA/QC Officer